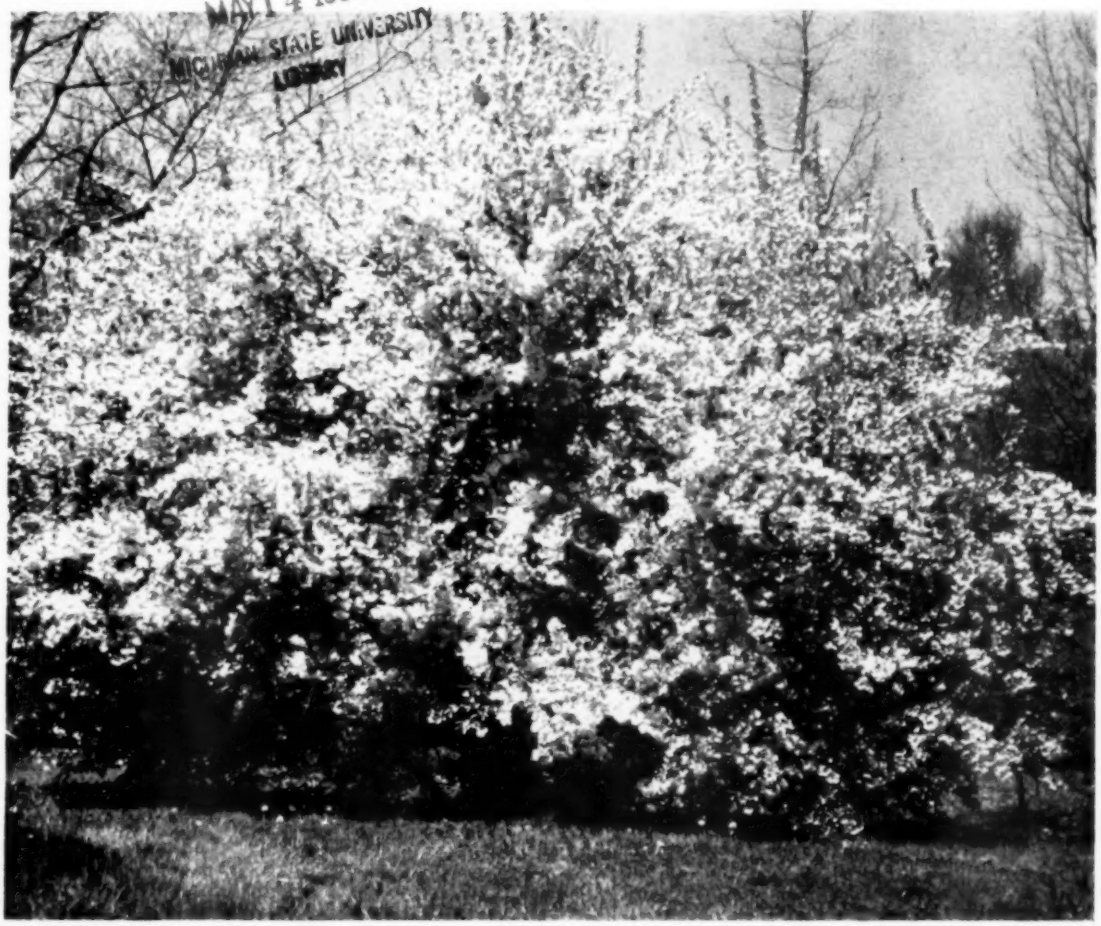
AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MAY 15, 1956

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Malus Katherine

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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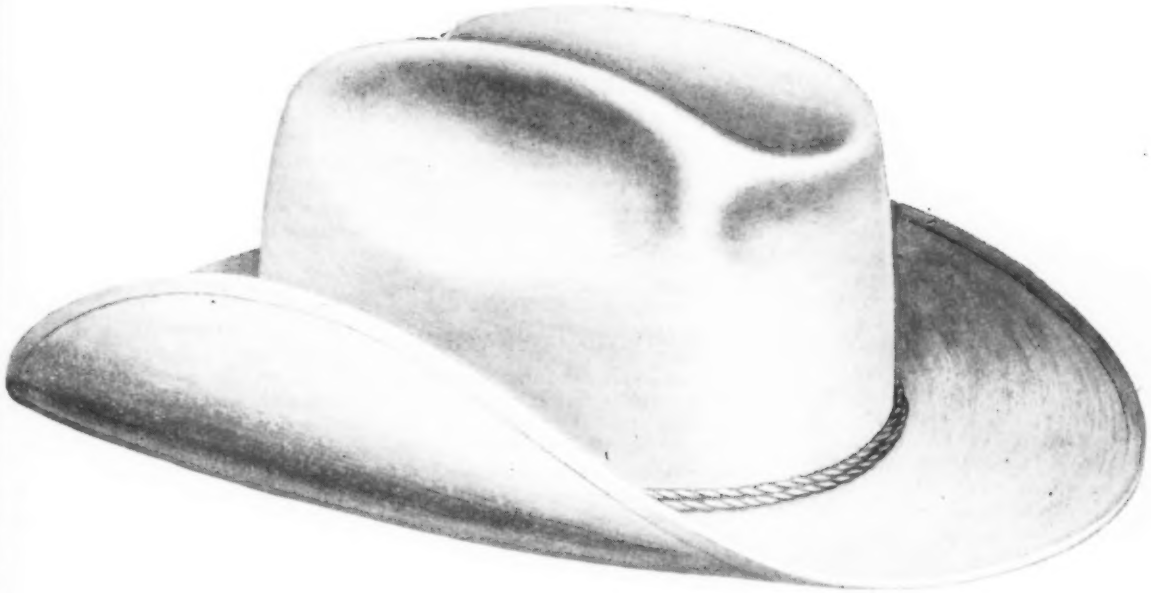
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Forms for the June 1 issue will close Friday, May 11.

Forms for the June 15 issue will close Friday, May 25.

Mail copy to arrive at Chicago by these dates—no later!



KEEP IT UNDER YOUR HAT, PARDNER!

But we're aimin' to "lift the lid" and give you a real eyeful at the Los Angeles A. A. N. Convention at the Hotel Statler in Los Angeles, July 15 to 19. Booth number is 52. See you there.



TIFFANY (hybrid tea) AARS 1955 & LILIBET (floribunda) AARS 1954 are HOWARDS OF HEMET ORIGINATIONS

AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

FRED H. KILNER
Managing Editor

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Advertising Manager

Editorial

CALIFORNIA BOUND

The speed with which all space on the special train was sold out and the number of advance hotel reservations indicate the likelihood of an attendance at the convention of the American Association of Nurserymen at Los Angeles, Calif., in July, much exceeding that of any previous meeting of that organization on the Pacific coast. Another reason is that this is an era of expansion in the nursery industry and, consequently, a time of inquiry and investigation by nurserymen seeking better ways and newer methods.

And where is there a better place for such inquiry than California, where the sales season for nursery stock is 10 if not 12 months in the year? From there came the original inspiration for the modern garden centers which have sprung up in such numbers in the east and middle west. Suggestions as to extending the planting season and as to the uses of mechanical aids in wholesale propagation and in handling large quantities of plants were gleaned there. The outdoor living room there is a practical home adjunct, not just a phrase, and other modern landscape ideas are to be had for the observation.

Aside from business, the Golden state offers many scenic wonders and numerous other vacation attractions. At the convention itself, features of the program and of the social events will be of special note. Some of these are told on another page of this issue. Others will be described later.

In view of the variety and extent of the lures held forth by the convention city, by California and by the Pacific coast generally, expectations for the banner convention of nurserymen in that area are well supported.

MORE MEETINGS

Anyone who refers to the meeting calendar in this issue cannot fail to observe how trade meetings are held in almost every month of the year, in contrast to the days when they were confined to a few months only. Of course, there are more organizations.

In the late spring months occur the gatherings of southern groups, and then begin the summer meetings, some social and some for business.

As this industry becomes more complex, there are more subjects for discussion, debate and action. Many summer meetings equal in importance the winter sessions of the same organizations.

The Mirror of the Trade

PROSPECTS' EDUCATION

Many landscape nurserymen are exasperated at their inability to sell plantings of what they consider appropriate size for new homes of the luxury class. The builders of such homes often include a minimum landscape planting in the contract with the owners. For this the nurseryman is allowed $500 or $600, and he may induce the owner to add a couple of hundred dollars more, but the carpeting alone in the house may cost $2,000 or $3,000 and the garage shelters two cars, each of which costs twice as much.

The fact of the matter is that such homeowners are likely to be so ignorant of gardening that they scarcely comprehend what the nurseryman is talking about. They do not know the names of the trees and shrubs he proposes to plant, and they are so unfamiliar with their respective characters and shapes that even a planting design holds little significance for them.

In all probability the housewife has been poring over women's and home magazines for months to obtain ideas and information on carpeting, draperies and other interior furnishings. She has studied and discussed these things, even if she has employed an interior decorator.

In such a household a garden magazine is unknown and a book on plants and gardening is unseen. Perhaps the landscape nurseryman would have a better opportunity for a satisfactory sale if one or the other were placed in the prospect's home as soon as the building contract was signed. If the owner had the chance to leaf over the issues of a magazine devoted solely to gardening — of which there are several excellent ones—during the months while construction was progressing, he or his wife might acquire enough acquaintance with things horticultural to appreciate the nurseryman's presentation. The advertising value of a year's subscription or of the price of a book on home landscaping might be returned manifold. Certainly the need of educating the nurseryman's prospects to know and to appreciate his merchandise and services is one the trade widely recognizes. For a special group of prospects this suggestion should prove eminently worthwhile.

PLANTING DESIGN

In the haste to accommodate customers who desire planting about new homes, the average nurseryman seems to be paying less attention to the design of such properties than is warranted. Granted that there is not much scope for originality on small grounds, especially if there is a limited budget, yet just to place a few evergreens here and a few shrubs there leads to a later appearance of monotony, if not of ugliness. More than that, every such job is a deterrent to further sales, for if the nurseryman does not take a real interest in the planting, the homeowner is not likely to feel any stimulation in that direction. He or she will accept it as like the new dining room rug, a necessary adornment of the premises, but worthy of no particular notice subsequently.

When making an initial home planting, a nurseryman has the opportunity of fostering gardening as a new interest or even as a hobby on the part of the owner. Not only should the plants be attractive, as most new plants are, but their arrangement should be pleasing. And the nurseryman misses a bet if he does not explain to a homeowner just why the arrangement is pleasing; in other words, give him a first lesson in planting design that will awaken his active interest in this subject.

Periodically there is a reawakening of interest in what is called landscape art, but which is better termed planting design when small properties are involved. The nurseryman should be among the last to let this interest slacken or slumber. He should, on the contrary, be keen to keep it alive, because gardening has not reached its best until it recognizes design in the garden itself and in the property of which the garden is a part. The current public interest in gardening needs stimulation to that end.

Noteworthy Plant Selections

By J. Gerling

Rochester Park Department, Rochester, N. Y.

Many of our most useful plants originated through somatic and germinal mutation; from such out of character developments, horticulturists have not only derived superior varieties of fruit, but also provided many fine ornamental plants which greatly augment the supply of desirable trees and shrubs. Selected forms and varieties often provide plants which are ideal for use in many phases of landscape work where the species type would prove impractical.

It has been said that, if one looks long enough and far enough, a pendulous, fastigiate and dwarf form of almost every species might be found, as well as many foliage, flower and fruit variations. Whether or not this is true, it is the constant alertness and trained eyes of interested horticulturists, lay or professional, which have increased the available supply of such plant material.

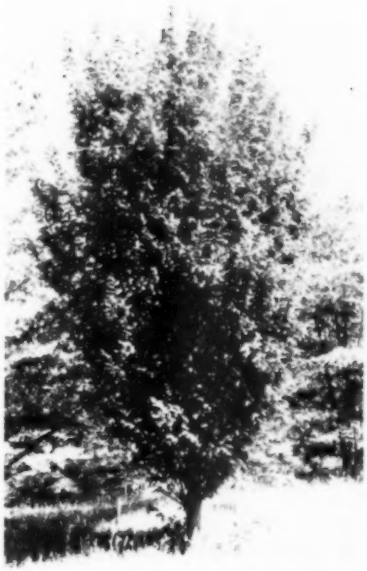
Granted that quite often these sports, clones and hybrids are found by chance, the fact that their worth is recognized and they are introduced and propagated to serve a useful purpose is due to the never-ending quest for more and better plants which characterizes the earnest efforts of many outstanding workers in the field. Such a man is Bernard H. Slavin, now retired superintendent of Rochester parks after more than 50 years of devoted work in the development of a splendid park system, famous for its wealth of rare and unusual plants.

Broadened Park Acquisitions

Together with co-workers in the park department, Mr. Slavin made every possible effort to acquire and establish as many species, hybrid forms and varieties as were available and could be grown in the Rochester area and was constantly selecting and testing little-known plants that gave promise of proving more practical for special uses. His tireless search for trees and shrubs having more desirable characteristics than more commonly known and widely used sorts resulted in the finding and propagation of many new species, hybrids and forms which have proved of practical value. A few of these are here pictured and described.

Mr. Slavin's close association with contemporary collectors, whose work took them far afield on the eastern continent, and his own work in this country enabled him to contribute greatly in establishing the well-known botanical collections and fine landscape plantings for which Rochester's parks are famous.

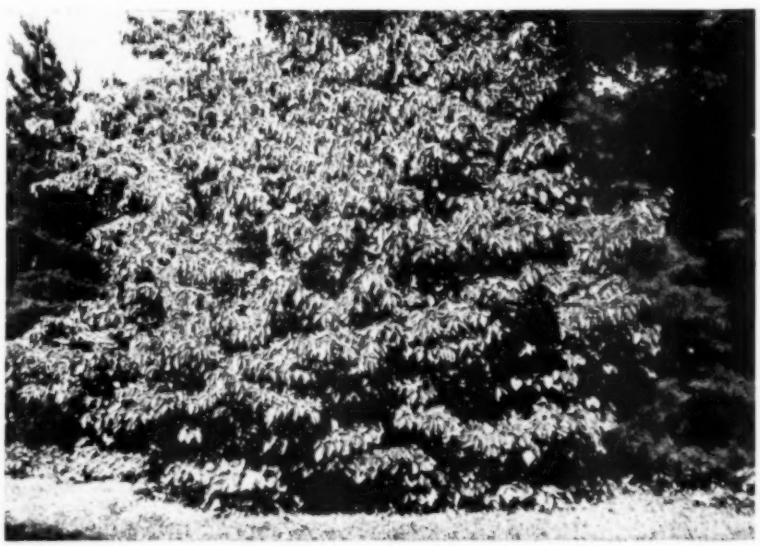
Mr. Slavin was one of the first arborists to foresee the necessity for much revision in the thinking and practices of city foresters in their choice and use of material for street plantings. Almost 50 years ago, he was aware of the inevitable, widespread problems which today annoy the homeowner and deplete the city forester's budget. His pioneer work in the selection and use of better-adapted forms and more compatible species ("Better Trees for Future Use," American Nurseryman, November 15, 1954) points the way toward more practical, economical and satisfactory use of plant material in both public and private plantings.



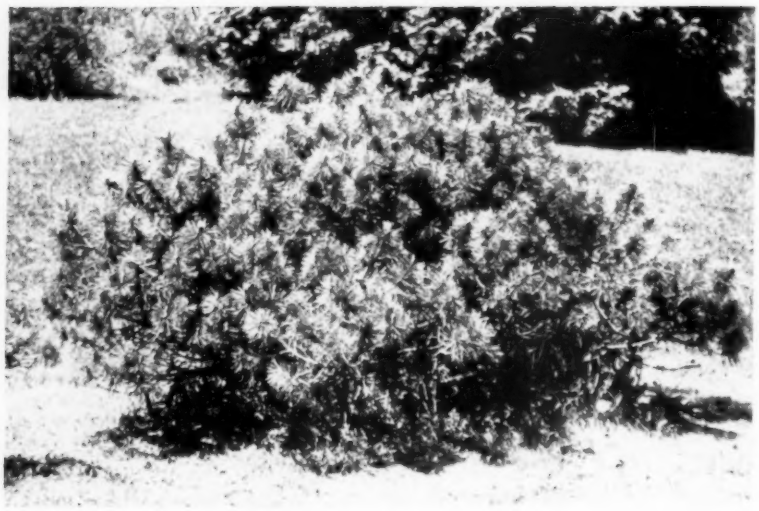
Carpinus Caroliniana, Upright Form

Dogwood Desirables

The native dogwood is one of our most loved and widely used flowering trees because of its magnificent spring bloom and pleasing fall fruit and foliage coloring. While one should hardly expect more than these admirable features in any one tree, the woody structure of Cornus florida does leave something to be desired; the rather loose, irregular branch formation too often develops an asymmetric head, quite out of keeping with this splendid little tree's other fine attributes. Mr. Slavin's long search for a form with better branching habit was finally rewarded when he found a plant, among seedlings of C. florida, which was much different than typical young plants; selected and numbered, this tree was set out in Dur-



Cornus Florida, Shrub-Type Flowering Dogwood



Pinus Mugo Slavini, Dwarf Form of Mountain Pine

and-Eastman park. When last photographed, at about 30 years, this specimen had not only retained all the good qualities of the parent species, but had developed a compact, round, shrublike head branching from the ground. It is an attractive plant, far better than the species type for use where a more formal contour is wanted.

Flowering Crab Apples

The flowering crab is another much-used small tree, with many showy species, hybrids and forms. Two excellent plants have been added to the list of well-known sorts by Mr. Slavin. His fringe-petal crab, Malus ioensis fimbriata, is an interesting, shapely form of the native prairie crab; in addition to having the petals fringed, the flowers are considerably larger and more abundant than those of the related form, M. ioensis plena, Bechtel's crab.

Malus Katherine is a double-flowered hybrid, selected as a seedling by Mr. Slavin and named for his daughter-in-law. It is distinguished by its densely branched, globe-like head, forming from the ground, a rather unusual growth habit in the genus. The buds are deep pink and the flowers light pink, fading to white when fully opened. The prolific, fragrant blossoms make this form a pleasingly handsome white ball, ideal for use as a specimen lawn plant.

Other crabs selected and propagated by Mr. Slavin to be grown in the Rochester parks are M. coronaria nieuwlandiana, which has more highly colored flowers than the species, and M. sargenti rosea, which also differs from the species in floral color; instead of white, the flowers are bright red in bud and deep pink when open.

Fastigiate Hornbeam

An American hornbeam of unusual branch structure was found by Mr. Slavin in upstate New York, growing in the wild. This form of Carpinus caroliniana has a pronounced fastigiate growth habit, and the specimen now in Durand-Eastman park is about 25 feet high and eight feet across at 30-odd years. While not recorded in Rehder's arborists' "bible," this tree recommends itself to wide appreciation because of its many fine points; its symmetric, upright form and aristocratic appearance would serve exceptionally well where a dignified, formal type is needed, and the species' well-known freedom from damaging natural enemies and wide tolerance of growing conditions make this form of the blue beech a worthy addition to the list of small-growing functional trees.

Dwarf Evergreens

Dwarf evergreens play an important part in the landscape planters' work, and there are many such forms of good species to choose from; some are truly dwarfed in habit, others merely slower-growing, smaller-maturing plants than the species type. Two of Slavin's noteworthy selections are excellent examples of the true dwarf form and are ideal where low-growing evergreens that will not outgrow their usefulness are wanted. Taxus cuspidata minima is a selected seedling of the Japanese yew and so definitely a dwarf that the type plant attained less than one foot in height and

[Concluded on page 68]

COVER ILLUSTRATION

Malus Katherine

With the exception of Asiatic flowering cherries, ornamental crab apples are perhaps the best known and most generally used early-flowering trees. As with many species long in cultivation and much grown, many hybrids and forms of the crab apple have been selected and propagated. Among these are plants often having some desirable characteristic lacking in the parents which merits their introduction into the trade. Malus Katherine, selected by Bernard Slavin because of outstanding qualities, is such a hybrid.

Malus Katherine was found in a block of seedlings and named by Mr. Slavin for his daughter-in-law. While quite young, the plant showed promise of unusually fine features and was marked for observation. Mr. Slavin was not disappointed; this find has developed into one of the most handsome crabs to be found in the Rochester parks. The specimen pictured on the cover is in Durand-Eastman park; it is a densely branched, full-headed tree, about 15 feet high and as broad. The flowers are deep pink in bud, maturing to white, double and fragrant. Heavily covered with bloom, its symmetric, low-branching head gives this excellent hybrid the appearance of a fluffy, white cloud.



Flowers of Katherine Crab

Fortunately for lovers of fine flowering ornamental trees, this splendid crab is now being propagated for commercial distribution. While the exact parentage of the attractive hybrid is unknown and would be difficult to trace positively, it is believed to be of Asiatic origin and has proved hardy in the Rochester area.

J. G.

A. A. N. at Los Angeles

Convention Highlights and Meeting Dates



Statler Hotel, Los Angeles, Calif.

On this, the third time in which the A. A. N. has selected the west coast for its annual convention site, California nurserymen are making every effort to provide a program to be remembered by the visitors.

Among the headline pleasure events is a trip to fabulous Disneyland. Because of its exceptional interest horticulturally, this play area has been included among the points of visit not only for the younger convention attendants, but for all. The tour will be made Monday, July 16. The juniors will go to the park late in the morning and have lunch there. The grownups will join them for the afternoon after attending the keynote lunch at the Statler hotel.

Tuesday, July 17, the young people will journey to Marineland for an all-day excursion, enjoying a picnic on the beach near Santa Monica. There will also be a dance and other activities for the juniors.

For the ladies, there will be a lunch and fashion show in the main ballroom of the new Beverly-Hilton hotel, in Beverly Hills, with time also to shop in the surrounding area.

The past presidents' banquet will be another outstanding convention affair, for which the entire facilities of the famous theater-restaurant, Moulin-Rouge, will be taken over.

ALLIED GROUPS' PLANS

Rapid progress is being made in completing the plans for the 81st annual meeting of the American Association of Nurserymen, July 15 to 19, at Los Angeles, southern California's famed convention city.

All business sessions will be held at the Statler hotel, headquarters, where hours and places of meeting for allied and A. A. N. groups have already been arranged. A schedule for these events, as given by Executive Vice-president Richard P. White, follows:

All-American Camellia Selections, Boston room, 8 a. m. to 5 p. m., July 17.

All-America Rose Selections, Sierra room, 2 to 5 p. m., July 14.

All-America Rose Selections, Sierra room, 9 a. m. to 5 p. m., July 15.

American Association of Botanic Gardens and Arboretums, breakfast meeting, New York room, 8 a. m., July 17.

American Nurserymen's Protective Association, Mission room, 9 a. m. to 12 noon, July 17.

Baby Ramblers, breakfast meeting, Boston room, 8 to 10 a. m., July 16.

Fruit Tree Growers' Association,
Stock committee, Hartford room, 3 to 5 p. m., July 13.
Membership meeting, Mission room, 2:30 to 5 p. m., July 14.

National Association of Plant Patent Owners, New York room, 9 a. m. to 5 p. m., July 16.

National Landscape Nurserymen's Association,
Executive committee, Hartford room, 9 a. m. to 4 p. m., July 14.
Executive committee, breakfast meeting, Hartford room, 8 a. m. to 12 noon, July 15.
Membership meeting, business session, Los Angeles room, 8:30 to 9:30 a. m., July 17.
Membership meeting, business session, Los Angeles room, 4 to 5 p. m., July 17.

National Mail Order Nurserymen's Association, breakfast meeting, New York room, 8 to 10 a. m., July 18.

Nursery Association Secretaries, Buffalo room, 2 to 5 p. m., July 18.

Ornamental Growers' Association,
Stock committee, Hartford room, 10 to 12 a. m., July 13.
Membership meeting, Mission room, 10 to 12 a. m., July 14.

A. A. N. market development and publicity committee, Mission room, 2 to 5 p. m., July 15.

A. A. N. board of directors, Dallas room, 1:30 to 5 p. m., July 14; 10 a. m. to 5 p. m., July 15, and 2 to 5 p. m., July 18.

CONVENTION SPEAKERS

Nurserymen attending the annual convention of the American Association of Nurserymen will have an opportunity to hear two

[Continued on page 32]



Dr. Allen A. Stockdale



Rex L. Nicholson

XUM

Tips for Better Landscapes

Witch Hazels for the Landscape

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, L. I., N. Y.

The witch hazels are a group of deciduous shrubs that have never come into their deserved prominence. They have been grown more in recent years by many nurserymen, but are not readily accepted by the average home gardener. The main reason for this is that they do not display a profusion of large, colorful flowers at a time when most people expect them—in the spring during April, May and June—for this is when homeowners eagerly look for blooms in their gardens. Witch hazels, however, are hardy shrubs with many interesting and favorable characteristics that recommend them over much better known and more widely used woody plants.

Only four species are available and may be obtained from a nurseryman or collected from a nearby stream or woodland edge. Collectible species are the common witch hazel, Hamamelis virginiana, whose habitat is eastern and central United States, and the vernal witch hazel, Hamamelis vernalis, localized in the central states. The Chinese witch hazel, Hamamelis mollis, which has probably achieved the greatest popularity in recent years, and the Japanese witch hazel, Hamamelis japonica, are two species obtainable only through nurseries. There is one variety of the Japanese witch hazel, red Japanese witch hazel, H. japonica flavo-purpurascens, which is occasionally offered for sale. Each species has botanical varieties, except the Chinese witch hazel, but are usually only seen in botanical gardens and private plant collections.

Hardy Plants

Hardiness is not a factor that must be considered seriously because all the varieties respond well in areas where the temperatures dip well below zero. Neither do strong winds become a menace to poorly located witch hazels, except those already in a weakened condition because of careless transplanting. They are plants that also withstand neglect and abuse, but like all plants they do best in good growing conditions.

There are few shrubs that grow well under a wide variety of soil conditions. Whether the soil is that of a sparse woodland bordering a swamp or one of an open hillside devoid of any ready supply of moisture seems to make no appreciable difference to the rugged witch hazels. The dusty and smoky atmosphere of some city areas causes no real hardship, either. The reader perhaps is beginning to believe that the witch hazels are being promoted as the perfect plants. They are not, but they do have many worthy qualifications.

The flowers are somewhat spidery in appearance and are unusual in their time of flowering. The yellow ribbonlike petals begin to break from the flower buds of the common witch hazel about October 20 at Farmingdale, N. Y., and continue to show the odd flowers until approximately November 20. This is the only species of the group that flowers at nearly the same time each year.

Japanese and Chinese

There is usually little difference in the flowering dates of the Japanese and Chinese witch hazels. The Chinese flowers about February 20 to 25 and the Japanese a week later, but this date cannot be depended upon year after year. Both have a pleasing fragrance that could be a welcome addition to any home. Flowering time is an ideal time for pruning, particularly since the cuttings can be enjoyed within the home. Flowering time of the vernal witch hazel has been unpredictable in some years. On one or two occasions it has flowered as early as the middle of January, but in most cases the small fragrant flowers appear during mid-February and last for nearly six weeks, longer than the flowering period of others. The flowers, however, are at their best during the first three weeks when the petals open more on warm days than they do on more frigid days. It is amaz-



Illustration A — The Chinese witch hazel is an interesting sight as its yellow flower petals unfold from tan buds.



Illustration B — The opening flowers of the witch hazel are often seen with the fruits of the previous season's flowers.



Illustration C — The brown, oval flower buds of the Japanese witch hazel are usually borne in pairs on curved stalks.



Illustration D — The round, light tan flower buds of the Chinese witch hazel are remarkably woolly as compared to the other witch hazels.

ing how long the pleasing odor lasts and that it wanes only slightly as the flowers age.

The largest and most colorful flowers of the group are those of the Chinese witch hazel, as you may see in illustration A where the flower measures about an inch and a half in diameter. The spidery petals are golden yellow and reddish at the base, and the inside of the calyx is a purplish red. The smaller Japanese witch hazel flowers have bright yellow petals and a purple tone to the inner part of the sepals. The red Japanese witch hazel receives its name from the fact that the petals are reddish at the base. The inner part of the sepals is deep purple. The vernal witch hazel has small flowers with petals colored dusty yellow with orange-red bases.

Witch Hazel Fruits

The fruits are similar in all species and have little or no ornamental value. The 2-valved, pear-shaped capsules do have two interesting characteristics worth mentioning, however. One is that the fruits open with a small explosion whereby the seeds are propelled several feet from the plant. There is actually a small noise like that of a little firecracker. The second point is that the fruits from the previous year's flowers are still on the plant as the new flowers unfold. This is evident in illustration B.

The flower or reproductive buds are quite different in all four species, and one can readily identify each if he knows what to look for. The Japanese witch hazel usually produces buds in pairs, as may be seen in illustration C, and they differ from the buds of all the other witch hazels in being brown and much darker in appearance. Their shape is different, also, being oval, while the other three species bear round flower buds. All bear the buds on distinct stalks. The Chinese witch hazel has tan flower buds (see illustration D) that often measure as much as a quarter of an inch in diameter and are about twice the size of the other two round flower bud types, vernal and common witch hazels. Hamamelis mollis flower and growth buds have the woolliest protective coating of any of the group. The bud stalks and young stems are also quite woolly. The flower buds usually number three to a stalk, but may come in twos or fours.

The vernal and common witch hazels in most cases bear their round flower buds three to a stalk and do closely resemble each other in size and shape. The vernal flower buds have a slight orange tint, while the common witch hazel flower buds are light yellow and sometimes a slightly dirty light yellow.

Witch Hazel Leaves

The leaves of the Chinese witch hazel differ from the Japanese and native ones in being round and hairy on both sides, with a heart-shaped base. The foliage has a soft green appearance and a striking yellow fall color—really attractive. The leaf base of the common witch hazel is unequal or oblique, and the leaf bases of species resembling it are similar but not with consistently unequal bases. The back of the leaf of the common witch hazel is a fairly definite green, while the Japanese and vernal witch hazels have grayish or bluish-green undersurfaces. All witch hazels have a yellowish fall color, but no other has the clear yellow appearance of the Chinese witch hazel foliage in fall.

The form and branching habit of each are not too different. All have a somewhat broad vaselike appearance, as may be judged from the winter appearance of the Chinese witch hazel in illustration E. The vernal is often more upright, but this cannot be relied upon under varying growing conditions. These large shrubs can be shaped to a certain degree, but in most cases it is better to accept their natural shape and prune only to eliminate old stems and cross branching, often a common occurrence.

The Chinese witch hazel attains the greatest ultimate height. It is sometimes listed as growing to 30 feet, but this is impractical for landscape purposes where a height of 15 or 18 feet at the most is more in keeping. The Japanese is similar to the Chinese in this consideration, but usually a slower grower. The common witch hazel grows to about 12 feet, and the vernal is rarely seen taller than eight or 10 feet.

Landscape Uses

What are the landscape uses of one or more of the species described? They are excellent for park planting, particularly the small triangular plots of some cities, towns and villages where proper care is not one of the regular activities. Appearance of school and office buildings is enhanced by incorporating the witch

[Continued on page 67]

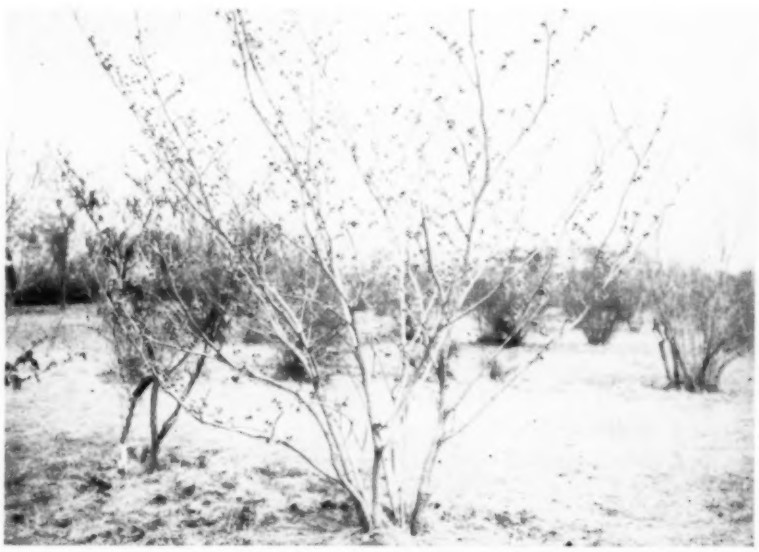


Illustration E — The form of the Chinese witch hazel, like the others, is a semiupright shrub that can be best studied during the winter.

Mountainside Garden Shop

Not being near a large city, Waynesboro Nurseries, Inc., Waynesboro, Va., must resort to bringing customers from a distance to its garden center, Boxwood Garden Shop, pictured here. A planting of 100,000 spring-flowering bulbs, including many new tulips, some of which are now being grown for the first time in Virginia, affords a colorful springtime display attracting flower lovers within a radius of 200 miles.

Tulips are followed by azaleas, flowering crab apples, flowering cherries, dogwoods and other spring-flowering trees, as well as rock garden plants blooming in a natural sloping background. In late May, roses take over, holding interest until July, when crape myrtles demand attention. July and August are the most difficult summer months to provide color. Interest is then afforded by carefully selecting plant material to be displayed, frequently changing plant beds, freely displaying spray materials, other garden supplies, Virginia mountain handicraft, gifts and souvenirs appealing to summer tourists visiting the nearby Shenandoah National park and Skyline drive, resulting in a good business through the summer.

Open Year Around

December, January and February are slow months, but by growing potted plants and selling some nursery stock and other garden supplies, the mangement can keep the shop open all the year. While Waynesboro Nurseries, Inc., engages in newspaper and garden magazine advertising, other means of promotion are also used, the most effective advertising being well-landscaped roadside frontage for the garden shop—a mass of color at various seasons, at its best at tulip time in the spring and chrysanthemum time in the fall.

Trained employees are available to assist planters in selection of merchandise, but each visitor is encouraged to exercise self-service as far as possible, assistance being given only when needed. The mountain terrain does not lend itself to the use of carts and buggies found in some salesyards, but it is adapted to interesting landscaping and displaying plants to best advantage.

Gift Shop

The gift shop, constructed of natural mountain stone, ties in with the surrounding views, making an inviting stopping place for visitors, who frequently explain that they stopped just because of the attractive place. They are invited to visit as much as they like and come again. Generally they make a purchase before departing. Often the visitor returns with friends. Frequent changes in display arrangement and color make each visit interesting to the returning guest.

While Boxwood Garden Shop is not an elaborate garden center, it is interesting because of its unique setting, being built into the steep, stony slopes of the Blue Ridge mountain, bordering each side of the highway for a distance of 1,200 feet, featuring plant materials adapted to the area.

Boxwood Garden Shop is located on United States Route 250, one and a half miles east of the junction of Skyline drive and Blue Ridge parkway, five miles east of Waynesboro and 20 miles west of Charlottesville, location of the University of Virginia.

SEELEY JOINS CORNELL

Prof. John G. Seeley, professor of floriculture, Pennsylvania State University, has been named to succeed Prof. L. H. MacDaniels as head of Cornell University's department of floriculture and ornamental horticulture. He will begin his duties June 1. Professor MacDaniels plans to retire June 30.

A native of New Jersey, Professor Seeley received B.S. and M.S. degrees in floriculture at Rutgers University, New Brunswick, N. J., and was awarded his Ph.D. from Cornell University in 1948. He has been professor of floriculture at Pennsylvania State University since 1949. Dr. Seeley has been active in various flower growers' associations and in research in floriculture and has written many bulletins, papers and articles in the field. His paper on "Responses of Roses to Various Oxygen Concentrations in the Substratum" won the 1950 Leonard H. Vaughan memorial award from the American Society for Horticultural Science.

LAUCHIS NURSERY, 9205 Parkview, Brecksville, O., is being started by Ray W. and Bettie Lauchis. They have been planting stock for the past three years and have now completed a greenhouse 9x12 feet for starting plants, including perennials, and have developed a small lake for a water supply.



View on an April afternoon at the Boxwood Garden Shop operated by Waynesboro Nurseries, Inc., Waynesboro, Va., showing hillside layout where a big tulip planting is a spring feature, followed by other colorful displays.

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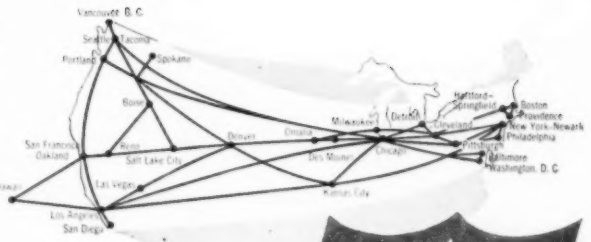
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Euonymus Fortunei Erectus (small leaf)
Euonymus Patens
Gardenia Fortunei
Ilex Cornuta Burfordi
Ilex Cornuta Femina
Ilex Crenata Convexa
Ilex Crenata Rotundifolia
Ilex Opaca East Palatka (heavily sheared)
Ilex Vomitoria (well sheared)
Pride of Houston
Jasminum floridum
Laurel Cherry (well sheared)
Ligustrum Lucidum (Black Wax)
Ligustrum Lucidum (Griffing type)
Ligustrum Lucidum Nanum
Loropetalum Texanum
Magnolia Glauca
Magnolia Grandiflora
Magnolia Soulangeana
Magnolia Soulangeana Nigra
Nandina Domestica
Photinia Serrulata

CONIFERS

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Arborvitae, Or. Berckmans (Aurea Nana)
Arborvitae, Or. Blue Cone (very compact)
Arborvitae, Or. Bonita
Arborvitae, Or. Bonita Golden
Arborvitae, Or. Excelsa
Arborvitae, Or. Fruitland (Green Berckmans)

CONIFERS, cont.

Arborvitae, Or. Newark
Arborvitae, Occ. Globosa
Arborvitae, Occ. Nigra (Dark Green)
Arborvitae, Occ. Pyramidalis
Cedrus Deodara
Juniper, Andorra
Juniperus Excelsa Stricta
Juniperus Fastigiata
Juniperus Glauca Hetzi
Juniperus Glauca Hetzi (staked and sheared)
Juniperus Hibernica (Irish)
Juniperus Pfitzeriana
Juniperus Pfitzeriana Aurea
Juniperus Pfitzeriana Compacta
Juniperus Sabina
Juniperus Sabina Vonehron
Juniperus Sabina Vonehron (staked and sheared)
Juniperus Scopulorum
Juniperus Sylvestris (Chinensis Femina)
Juniperus Virginiana Burki
Juniperus Virginiana Canaerti
Juniperus Virginiana Dundee
Juniperus Virginiana Glauca
Pinus Mughus
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COMING EVENTS

MEETING CALENDAR

May 23 to 25, western chapter National Shade Tree Conference, convention, Rickey's Garden hotel, Palo Alto, Calif.

May 24 to 26, Florida Nurserymen and Growers Association, annual convention, Roosevelt hotel, Jacksonville, Fla.

May 27 to 29, Alabama Nurserymen's Association, annual convention, Hotel Russell Erskine, Huntsville, Ala.

May 28 to 30, Texas Association of Nurserymen, short course, Texas A. and M. College, College Station, Tex.

June 3 to 5, Georgia State Nurserymen's Association and South Carolina Nurserymen's Association, joint annual convention, Bon Air hotel, Augusta, Ga.

June 6 to 7, nurserymen's refresher course, California State Polytechnic College, San Luis Obispo, Calif.

June 11 to 13, Louisiana short course for nurserymen, Southwestern Louisiana Institute, Lafayette, La.

June 17 to 19, Mississippi Florists' and Nurserymen's Association, annual convention, Buena Vista hotel, Biloxi, Miss.

June 18 to 20, Missouri State Nurserymen's Association, annual meeting and short course, University of Missouri, Columbia, Mo.

June 24 to 26, New Mexico Association of Nurserymen and Plains Nurserymen's Association, joint convention, Caprock hotel, Lubbock, Tex.

June 26 and 27, 12th annual nursery school, Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

June 26 and 27, Kentucky State Nurserymen's Association, summer meeting, Kentucky Lake state park, near Hardin.

July 15 to 19, American Association of Nurserymen, annual convention, Hotel Statler, Los Angeles, Calif.

August 1 and 2, Indiana Association of Nurserymen, summer meeting, Price Nurseries, Plymouth, Ind.

August 2, Pennsylvania Nurserymen's Association, western region, summer outing, Eisler's Nurseries, Butler, Pa.

August 5 to 7, National Mail Order Nurserymen's Association, annual meeting, La Salle hotel, Chicago, Ill.

August 9 and 10, Canadian Association of Nurserymen, ninth annual short course, Macdonald College, Ste. Anne de Bellvue, Que.

August 15, New England Nurserymen's Association, summer meeting, C. R. Burr & Co. nursery, Manchester, Conn.

August 15, Pennsylvania Nurserymen's Association, summer meeting, John Albrecht Nurseries, Narberth, Pa.

August 19 to 21, Southern Nurserymen's Association, annual convention, Andrew Jackson hotel, Nashville, Tenn.

August 19 to 21, Virginia Nurserymen's Association, summer meeting, The Cavalier, Virginia Beach, Va.

August 19 to 22, Texas Association of Nurserymen, annual meeting, Shamrock-Hilton hotel, Houston, Tex.

August 20 to 24, National Shade Tree Conference, Royal York hotel, Toronto, Ont., Canada.

August 23 to 25, Washington State



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Nurserymen's Association, summer convention, Davenport hotel, Spokane, Wash.

C. A. N. REFRESHER COURSE

The eighth annual refresher course of the California Association of Nurserymen will be held June 6 and 7 at California State Polytechnic College, San Luis Obispo, Calif. A considerable part of the program will deal with profitable operation of the nursery business, according to Elmer J. Merz, executive secretary. Following is the program that has been planned:

JUNE 6

Welcome, by Julian A. McPhee, and opening remarks, by Stewart Wade, chairman.

"Your Business Tomorrow—Dynamic or Static?", by Channing E. Jones, Jr., manager, merchandising division, California Spray Chemical Corp.

"Soil Sterilization and Weed Control in the Nursery," by Harold Mitchell, Pasadena.

"Nursery Layout for More Profitable Operation," by Bert Bertolero, manager, Navlet's, Oakland and Concord.

Lunch.

"Public Relations—Good or Bad," by Walter Doty, director of editorial research, Sunset magazine.

"Profitable Sales and Maintenance of Power Equipment," by Willis Stribling, manager, Stribling's Nurseries, Merced.

"New Plant Materials," by Maunsell Van Rensselaer, director, Saratoga Horticultural Foundation, Saratoga.

Barbecue at Poly Grove.

Open house at the new ornamental horticultural unit of the college.

JUNE 7

"There Is Money in Letters," by John Reibel, English department, California State Polytechnic College.

"Trends in Packaging and Self-service," by David Stump, vice-president, Armstrong Nurseries, Ontario.

"Do You Mark Up for Profits or Losses?", by Elmer Merz, executive secretary, C. A. N.

"A Helpful Idea I Have Used in Selling Nursery Stock": 5-minute talks by Hal Simpson, Simpson's Garden Town, Pasadena; William Schmidt, Schmidt Nursery, Palo Alto; Howard Riggs, Riggs Camellia Garden & Nursery, Madera; Hollis Gray, Cottage Nursery, Vallejo; Charles Burr, California Garden Supply, Belmont, and Robert Kallman, Kallman's Garden Nursery, Santa Barbara.

Lunch.

Awards of diplomas.

New propagation methods and mist demonstrations at the ornamental horticultural unit, by Howard Brown and Maunsell Van Rensselaer.

AUGUSTA TWO-STATE MEET

With the Bon Air hotel, Augusta, Ga., as headquarters, the joint convention of the Georgia State Nurserymen's Association and the South Carolina Nurserymen's Association, June 3 to 5, opens with a buffet dinner the first evening.

After the call to order Monday morning, at 9 o'clock, James M. Latham, Jr., assistant turf specialist,

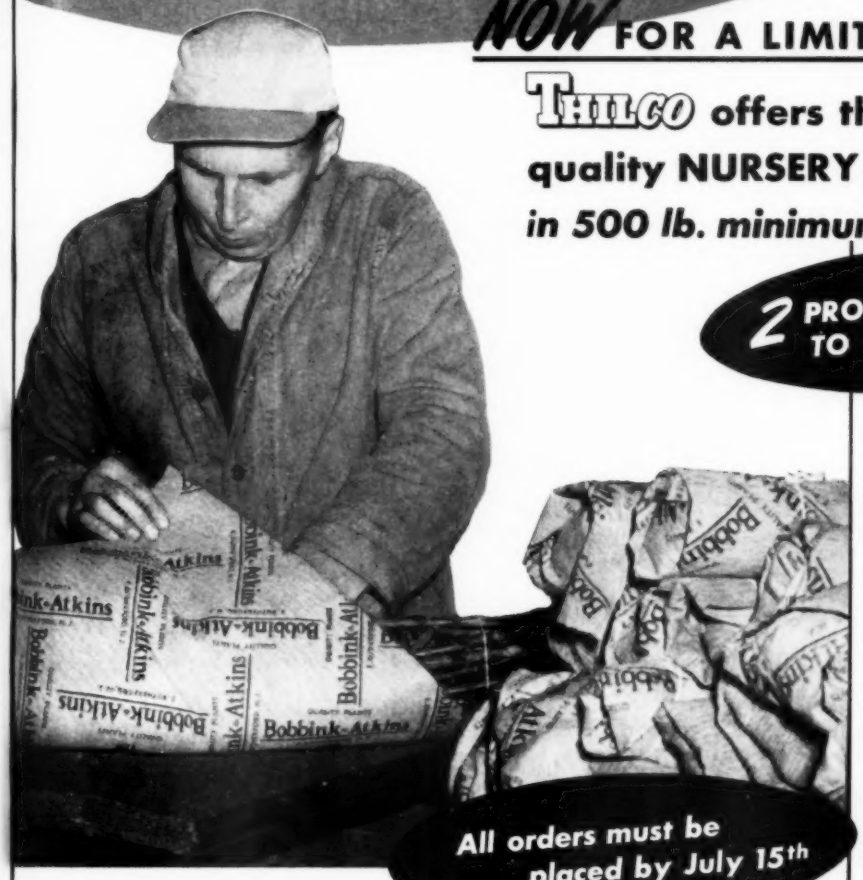
ATTENTION: small nurseries

ACT PROMPTLY ON THIS!

NOW FOR A LIMITED TIME ONLY...

THILCO offers the "Tailor-Made" quality NURSERY WRAPS you want *in 500 lb. minimums — sheets or rolls*

2 PROTECTIVE GRADES TO CHOOSE FROM



All orders must be placed by July 15th

GRADE NO. I

COMBINATION: 40 lb. Sturdy Green Wet Strength Treated Kraft
40 lb. Asphalt Laminant
25 lb. Tan Kraft
Full Creped to 20% Stretch

ADVANTAGES: — This grade is recommended over standard asphalted combinations (such as 30-30-30, creped 33%) because of greater initial strength and a higher retention of strength in usage under moist conditions. The wet strength treatment of the outer ply guarantees a greater retention of the protective qualities of the wrapper, plus the added advantage of a 40 lb. barrier over the regular 30 lbs. of laminant in "standard" grades.

GRADE NO. II

COMBINATION: 60 lb. Tan MF Kraft
1 Mil Black Polyethylene Coating

ADVANTAGES: — Poly-Kraft Nursery Wrap duplicates nature by preventing loss of moisture from the plant's roots in much the same manner as winter's frozen earth prevents the drying out of deciduous plants, shrubs and trees.

In addition to all the excellent protective qualities provided by regular Poly-Kraft Wrappers, Thilco's exclusive BLACK Poly-Kraft provides *super-resistance* to light penetration. It completely absorbs all wave lengths of the entire visible spectra, provides an excellent light barrier and thus protects sensitive plant roots.

Although slightly higher in cost than Grade No. 1, there is a considerable difference in the approximate weight per M sq. feet; thus the "yield" of Poly-Kraft is definitely improved.

If you've been handicapped in ordering "custom grade" Thilco nursery wraps because of minimum quantity requirements, you'll be interested to know that *now* you can obtain these papers in *"small" nursery quantities.*

For a limited time only, Thilco can furnish you with two of its foremost "custom" grade wrappers in quantities as low as 500 lbs. per size, in sheets or rolls at economical standard grade prices. In order to offer this outstanding value, however, your orders must be placed with your nearest Thilco paper distributor, listed in the accompanying advertisement, by JULY 15TH!

If you are not already familiar with the complete range of Thilco Nursery Wraps, we suggest your writing for our complete sample kit and factual information as to the type of protection each grade offers. *Do not delay* . . . ORDER TODAY!



Write for FREE sample kit

NURSERY WRAPS OF EVERY TYPE

- POLYETHYLENE COATED KRAFTS
- WAXED AND WAX TREATED KRAFTS
- ASPHALT LAMINATED KRAFTS
- DUPLEX COMBINATION WRAPS
- STRONG, FLEXIBLE CREPE COMBINATIONS
- BAGS IN VENTILATED, PUNCHED OR TIN-TIED STYLES
- PRINT DECORATED PAPER AND BAGS FOR IDENTIFICATION, ADVERTISING OR INSTRUCTION
- CUSTOM GRADES FOR EVERY REQUIREMENT

THILCO
Functional Papers
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FINER LINERS

by

JOHN VERMEULEN & SON, INC.

Neshanic Station, New Jersey

OUR 35th year

GRAFTS are strong healthy scions on sturdy understocks established one year in the pot and are ava now. **ROOTED CUTTINGS** are individually selected, graded, made up and stuck assuring m uniformity. Roots are the best possible. Nothing sold that will not grow given proper care. P **DISCOUNT.** All orders picked up at the nursery that do not require special loading or preparation permitted a discount of 2% in addition to regular discounts. Advance notice required on all pickup

5 AT 10 RATE, 25 AT 100 RATE, 250 AT 1000 RATE.

	Each per 10	Each per 100	Each per 1000
ABELIA GRANDIFLORA (Glossy Abelia)			
2¼-in. pot, 6 to 8 ins.	$0.20	$0.16	$0.15
1-yr., 3-in. pot	.40	.30	.27
4-in. (No. 0) Mennepot	.60	.50	...
ACER PALMATUM ASHI-BENI (Jap. Red Maple)			
Own root, 1-yr., 2¼-in. pot, 8 to 12 ins. (June)	1.00	.75	...
Graft, 2¼-in. pot, 8 to 12 ins.	1.00	.75	...
Own root, 2-yr., 2¼-in. pot, 8 to 12 ins., br.	1.50	...	...
ACER PALMATUM ATROPURPUREUM (Blood-leaved Japanese Red Maple)			
2-yr., 2¼-in., pot, 6 to 8 ins., S.	.35	.30	.25
2-yr., 3-in. pot, 8 to 10 ins., S., br.	.60	.50	.45
ACER PAL. ATROP. NOVUM (Blood Good)			
Own root, 1-yr., 2¼-in. pot, 8 to 12 ins. (June)	1.00	.75	...
ACER PLATANOIDES ASCENDENS (Pyramidal Norway Maple)			
Grafts, 2¼-in. pot, 6 to 10 ins.	1.50	1.25	...
ACER SACCHARUM MONUMENTALE (Sentry Sugar Maple)			
Grafts, 2¼-in. pot, 6 to 10 ins.	1.50	1.25	...
HARDY AZALEAS			
AZALEA BARBARA, new, improved Fedora, later.			
2¼-in. pot, spring liners	.42½	.35	...
AZALEA BENI-KIRISHIMA, late, double, orange-red			
2¼-in. pot, spring liners	.30	.25	...
AZALEA GABLE HYBRIDS, very hardy, evergreen			
2¼-in. pot, spring liners	.30	.25	...

CAROL — **LA LUMIERE***
CAROLINE GABLE — **LORNA***
CORSAGE — **LOUISE GABLE**
CaG — **MARY ANN**
ELIZABETH GABLE — **PURPLE SPLENDOR**
GABLE'S SCARLET — **ROSEBUD**
HERBERT* — **ROSE GREELEY**

(*20c each, 250 and up)

AZALEA GABLE LORNA, double pink
Flats of 60 (call or delivery only) $11.00

AZALEA BUCCANEER, large, orange-red
2¼-in pot, spring liners .30 .25 ...

	Per Flat		
	1 to 4	5 to 39	40 and up
AZALEA HINO-CRIMSON, hardy crimson-red. Flatted stock for pickup or delivery only.			
Spring liners, 60 per flat	$ 9.00	$ 8.00	$ 7.50
1-yr. liners, 60 per flat	13.50	12.00	11.00

	Each per 10	Each per 100	Each per 1000	Each per 2500
Spring liners, 2¾-in. pot	$0.22½	$0.17½	$0.16	$0.15
1-yr. liners, 2¼-in. pot	.30	.25	.22½	...
3-in. pot, budded	.50	.40	.35	...
2-yr., 8 to 10 ins., XX, budded	.90	.75	.65	...
2-yr., 10 to 12 ins., XX, budded	1.15	.95	.85	...

	Each per 10	Each per 100	Each per 1000
AZALEA KAEMPFERI (Torch Azalea)			
2-yr., X, S.	$0.25	$0.20	...
6 to 10 ins., XX, frames	.45	.35	...
AZALEA KAEMPFERI HYBRIDS			
Spring liners, 2¼-in. pots	.22½	.17½	...

FEDORA — **FLAME**
CARMEN — **OTHELLO**
LATE HYBRID (Blooms Later)

AZALEA MOLLIS (Chinese Azalea)			
2-yr., X, S.	.30	.25	...
AZALEA NANCY, new, hardy Coral Bells			
Spring liners, 2¼-in. pot	.42½	.35	...
AZALEA PONTICA, yellow, deciduous, hardy			
2-yr., X, S.	.25	.20	$0.18
AZALEA PONTICA—GHENT HYBRIDS			
Grafts, 1-yr., 3½-in. pot, 8 to 12 ins.	1.40	...	...

GLORIA MUNDI — **PALLAS**
IGNAEA NOVA — **UNIQUE**
NARCISSIFLORA — **WILLEM III**

Grafts, 2-yr., 9 to 15 ins., B&B	1.75	...	...

COCCINEA SPECIOSA — **PALLAS**
GLORIA MUNDI — **DAVIESI**
NANCY WATERER

AZALEA POUKHANENSIS, low, early lavender			
2-yr., X, S.	.30	.25	...
AZALEA SHERWOOD CERISE, H in H, pink			
Spring liners, 2¼-in. pot	.30	.25	...
AZALEA SHERWOOD RED, early low red			
Spring liners, 2¼-in. pot	.30	.25	...
AZALEA VUYKIANA HYBRIDS			
Spring liners, 2¼-in. pot	.30	.25	...

BEETHOVEN — **MOZART**
HELENA VUYK — **JOSEPH HAYDN**
JOHANN STRAUSS — **QUEEN WILHELMINA**
WILHELMINA VUYK (PALESTRINA)*
*20c each, 250 and up

	Each per 10	Each per 100	Each per 1000
AZALEA WENDY, new, hardy ledifolia alba			
Spring liners, 2¼-in. pot	$0.42½	$0.35	...
BERBERIS THUNBERGI ATROPURPUREA NANA (Crimson Pygmy Barberry)			
10 to 12 ins., B&B, heavy	1.75	...	...
BUXUS MICROPHYLLA KOREANA (Korean Boxwood)			
2¼-in. pot	.25	.20	...
BUXUS SEMPERVIRENS MYRTIFOLIA (Myrtle-leaved Boxwood)			
2¼-in. pot	22½	.17½	...
1-yr., 2¼-in. pot	.30	...	...
CHAMAECYPARIS OBTUSA COMPACTA (Compact Hinoki Cypress)			
Grafts, 2¼-in. pot	.75	...	...
CHAMAECYPARIS OBTUSA NANA (Dwarf Hinoki Cypress)			
Grafts, 2¼-in. pot	.75	.60	...
CHAMAECYPARIS SQUARROSA CYANO-VIRIDIS (Blue-green Moss Cypress)			
2¼-in. pot	.30	.25	...
CORNUS FLORIDA (White Dogwood)			
3 to 4 ft., heavy	1.25	...	...
4 to 5 ft., heavy	1.50	...	...
COTONEASTER DIELSIANA MAJOR			
1-yr., S., 18 to 24 ins.	.22½	.17½	...
COTONEASTER HORIZONTALIS			
1-yr., 3-in. pot, from cuttings	.50	.40	...
COTONEASTER MOUPINENSIS			
1-yr., S., 18 to 24 ins.	.22½	.17½	...
DAPHNE BURKWOODI			
2¼-in. pot	.50	...	...
FAGUS SYLVATICA RIVERSI (Rivers' Beech)			
2-yr., grafts, 4-in. pot, 18 to 24 ins.	2.50	...	...
2-yr., grafts, 6-in. pot, 24 to 30 ins.	3.50	...	...
FRANKLINIA ALATAMAHA (Gordonia)			
3-in. pot, 12 to 15 ins., from cuttings	.75	.60	...
HAMAMELIS MOLLIS (Chinese Witch Hazel)			
Grafts, 2¼-in. pot, 8 to 12 ins.	.75	.60	...
Grafts, 1-yr. 3-in. pot, 12 to 15 ins.	1.20	1.00	...
ILEX AQUIFOLIUM, paired female and male			
1-yr., 3-in. pot	.75	...	...
ILEX CRENATA (Japanese Holly)			
Rooted cuttings, 4 to 6 ins.	.11	.08	...
Rooted cuttings, 6 to 8 ins.	.12	.09	...
1-yr., X, 4 to 8 ins.	.20	...	...
2-yr., X, 4 to 6 ins.	.17½	.22½	...
2-yr., X, 6 to 10 ins.	.30	.25	...
3-yr., X, 8 to 12 ins.	.50	.40	...
ILEX CRENATA CONVEXA (Bullata) (Japanese Holly)			
Rooted cuttings 4 to 6 ins.	.11	.08	$0.07½
Rooted cuttings, 6 to 8 ins.	.12	.09	...
ILEX CRENATA GREEN-THUMB, new			
2¼-in. pot	.42½	...	...
ILEX CRENATA HELLERI, low dwarf			
2¼-in. pot	.22½	.17½	...
1-yr., 2¼-in. pot	.27½	.22½	...
1-yr., 3-in. pot	.45	.35	...
ILEX CRENATA LATIFOLIA, big-leaved, tall			
Rooted cuttings, 4 to 6 ins.	.11	.08	.07½
Rooted cuttings, 6 to 8 ins.	.12	.09	.08½
2¼-in. pot, 5 to 6 ins.	.22½	.17½	...
1-yr., X, 6 to 8 ins.	.20	.16	...
1-yr., 2¼-in. pot, 6 to 8 ins.	.30	.75	...
3-in. pot, 8 to 10 ins., heavy	.45	.35	...
ILEX CRENATA LONGIFOLIA (Long-leaved Japanese Holly)			
2-yr., X, 6 to 10 ins.	.30	.25	...
ILEX CRENATA MICROPHYLLA (Little-leaved Japanese Holly)			
Rooted cuttings, 4 to 6 ins.	.11	.08	...
2¼-in. pot, 5 to 7 ins.	.22½	.17½	...
2-yr., X, 4 to 6 ins.	.27½	...	...
3-in. pot, 6 to 9 ins.	.45	.35	.32½

	Each per 10	Each per 100	Each per 1000
ILEX OPACA ROTUNDIFOLIA (Round-leaved American Holly)			
3-in. pot	$0.75	$0.60	...
ILEX VERTICILLATA			
1-yr., S.	.10	.07½	...
ILEX CRENATA ROTUNDIFOLIA (Round-leaved Japanese Holly)			
Rooted cuttings, 4 to 6 ins.	.11	.08	...
Rooted cuttings, 6 to 8 ins.	.12	.09	...
2¼-in. pot, 5 to 7 ins.	.22½	.17½	...
1-yr., X, 6 to 8 ins.	.20	.16	...
2-yr., X, 6 to 12 ins.	.30	.25	...
3-in. pot, 8 to 10 ins.	.45	.35	...
JUNIPERUS CHINENSIS PFITZERIANA (Pfitzer Juniper)			
Rooted cuttings, 5 to 7 ins.	.15	.12½	...
1-yr., 2¼-in. pot	.30	.25	...
JUNIPERUS CHINENSIS PFITZERIANA COMPACTA (Compact Pfitzer Juniper)			
Rooted cuttings, 5 to 7 ins.	.15	.12½	...
1-yr., 2¼-in. pot	.30	.25	...
JUNIPERUS GLAUCA HETZI (Blue Hetz Juniper)			
Rooted cuttings, 5 to 7 ins.	.15	.12½	...
JUNIPERUS HORIZONTALIS GLAUCA (Blue Creeping Juniper)			
Rooted cuttings, 5 to 7 ins.	.15	.12½	...
JUNIPERUS HORIZONTALIS PLUMOSA (Andorra Juniper)			
Rooted cuttings, 5 to 7 ins.	.15	.12½	...
1-yr., 2¼-in. pot	.30	.25	...
3-in. pot, 6 to 10 ins.	.45	.35	...
JUNIPERUS PROCUMBENS NANA (Hill Japanese Juniper)			
1-yr., 2¼-in. pot	.30	.25	...
JUNIPERUS SQUARROSA EXPANSA (PARSONI)			
1-yr., 2¼-in. pot	.30	.25	...
LEUCOTHOE CATESBAEI (Drooping Leucothoe)			
2-yr., X, S.	.30	.25	...
PICEA GLAUCA (Canadensis Alba) (White S			
4 to 8 ins., X	.10	.08	...
8 to 10 ins., X	.12½	.10	...
PIERIS JAPONICA			
2-yr., X, S.	.30	.25	...
6 to 9 ins., XX, bedded	.42½	.35	...
PINUS STROBUS PYRAMIDALIS (Pyramidal White Pine)			
Gr., 2¼-in. pot, 8 to 10 ins.	.90	.75	...
PINUS SYLVESTRIS WATERERI (Dwarf Scotch Pine)			
Gr., 2¼-in. pot, 4 to 6 ins.	.90	.75	...
PYRACANTHA COCCINEA LALANDI (Laland Fire Thorn)			
2¼-in. pot	.25	.20	...
3-in. pot, 9 to 15 ins.	.60	.50	...
PYRACANTHA COCCINEA LOWBOY (Lowboy Fire Thorn)			
2¼-in. pot	.25	.20	...
1-yr., 2¼-in. pot, 6 to 9 ins.	.30	.25	...
3-in. pot, 12 to 15 ins.	.60	.50	...
RHODODENDRON HYBRID SEEDLINGS, re Seed from best and hardiest hybrids.			
4 to 6 ins., XX, frames	.50	.40	...
6 to 9 ins., XX, frames	.60	.50	...
RHODODENDRON HYBRID GRAFTS			
1-yr., grafts, 3½-in. pots, 8 to 12 ins., st $16.50 per 10; $75.00 per 50; $135.00 per 10 (Varieties may be assorted.)			

AMERICA — **E. S. RAND**
CARACTACUS — **F. D. GODMAN**
CATAWBIENSE ALBUM — **IGNATIUS SARG**
DR. DRESSELHUYS — **LEES DARK PURP**
DR. RUTGERS

RHODODENDRON ROSEUM ELEGANS, ow			
1-yr., X, bedded	1.25	1.00	...
RHODODENDRON CAROLINIANUM			
2-yr., X, S.	.35	.30	...
SARCOCOCCA HOOKERIANA HUMILIS			
3-in. pot, 4 to 6 ins.	.50	.40	...

CONTINUED NEXT PAGE

	Each per 10	Each per 100	Each per 1000
AXUS BACCATA REPANDENS (Spreading English Yew)			
2-yr., 2¼-in. pot	$0.30	$0.25	$0.22½
AXUS BACCATA WASHINGTONI (Washington English Yew)			
2-yr., 2¼-in. pot	.30	.25	...
AXUS CUSPIDATA (Spreading Japanese Yew)			
Rooted cuttings, 6 to 8 ins.	.12	.09	...
Rooted cuttings, 8 to 10 ins.	.13	.10	.09½
AXUS CUSPIDATA BREVIFOLIA (Dwart Japanese Yew)			
Rooted cuttings, 4 to 6 ins.	.13	.10	...
Rooted cuttings, 6 to 8 ins.	.14	.11	...
Rooted cuttings, 8 to 10 ins.	.15	.13	...
AXUS CUSPIDATA CAPITATA (Upright Japanese Yew)			
C. tip cuttings, 6 to 8 ins.	.15	.12½	...
C. tip ctgs., 8 to 10 ins..	.17½	.15	...
C. tip ctgs., 10 to 12 ins.	.20	.17½	...
2-yr., S., select grade	...	.07½	.06
2-yr., S., select grade, 2500 and up		5c	
4 to 6 ins., S., select grade	.25	.20	.18
6 to 8 ins., S., select grade	.30	.25	.22½
AXUS CUSPIDATA DENSIFORMIS (Dense Japanese Yew)			
Rooted cuttings, 4 to 6 ins.	.12	.09	...
Rooted cuttings, 8 to 10 ins.	.15	.12	...
AXUS CUSPIDATA INTERMEDIA, spreading type			
Rooted cuttings, 6 to 8 ins.	.13	.10	.09½
Rooted cuttings, 8 to 10 ins.	.15	.12	.11
AXUS CUSPIDATA VERMEULEN (Vermeulen Yew)			
Rooted cuttings, 4 to 6 ins.	.12	.09	.08½
Rooted cuttings, 6 to 8 ins.	.13	.10	...
Rooted cuttings, 8 to 10 ins.	.15	.12	.11
2-yr., X, 6 to 8 ins.	.25	.20	...
2¼-in. pot	.30	...	...
AXUS MEDIA BROWNI			
2¼-in. pot	.30	.25	...
AXUS MEDIA HATFIELDI (Upright Hatfield Yew)			
Rooted cuttings, 4 to 6 ins.	.12	.09	.08½
Rooted cuttings, 6 to 8 ins.	.13	.10	...
Rooted cuttings, 8 to 10 ins.	.15	.12	...
2-yr., X, 4 to 8 ins.	.25	...	...
2-yr., X, 8 to 10 ins.	.40	.35	...
AXUS MEDIA HICKSI (Hicks' Yew)			
Rooted cuttings, 8 to 10 ins.	.15	.12	.11
2¼-in. pot, 5 to 8 ins.	.30	.25	...
AXUS MEDIA KELSEYI (Berrybush Yew)			
Rooted cuttings, 6 to 8 ins.	.13	.10	...
Rooted cuttings, 8 to 10 ins.	.15	.12	...
2-yr., X, 6 to 10 ins.	.25	.20	...
2¼-in. pot	.30	.25	...
VERTICAL YEWS—Tall, narrow, hardy (Taxus Media)			
USHING, grade D only			
ANDIFOLIA, grades B and D only			
RAMIDALIS, grade D only			
OBUSTA, grades A and D only			
RICTA, grades A, B, D and F only			
IDIS, grades A, B and D only			
Grade A, rooted cuttings, 3 to 4 ins.	.13½	.11	...
Grade B, rooted cuttings, 4 to 6 ins.	.15	.12½	...
Grade D, 2¼-in. pot	.35	.30	...
Grade F, 2-yr., X, 8 to 12 ins.	.50	.40	...
UGA CANADENSIS (Canadian Hemlock)			
4 to 6 ins., X	.25	.20	...
URNUM BURKWOODI			
2¼-in. pot	.25	.20	...
2-yr., 2¼-in. pot	.30	.25	...
2-in. pot, 6 to 10 ins.	.50	.40	...
2-in. (No. 0) Mennepot, 10 to 15 ins.	.75	.60	...
URNUM CARLESI (Korean Spice Viburnum)			
2-yr., S., 2¼-in. pot	.35	.30	...
URNUM DILATATUM (Linden Viburnum)			
2-yr., S., heavy	.10	.07½	.06
2-yr., X, 6 to 12 ins.	.15	.12½	...
2-yr., X, 12 to 18 ins.	.20	.15	...
URNUM RHYTIDOPHYLLUM (Leather-leaved Viburnum)			
2-in. pot	.50	...	...
URNUM TOMENTOSUM (Double-File Viburnum)			
2-in. pot, cutting-grown	.25	.20	...
URNUM TOMENTOSUM PLICATUM (Japanese Snowball)			
2-in. pot, cutting-grown	.25	...	...

MS AND CONDITIONS OF SALE:

ices quoted herewith cancel all previous quota- s and are subject to change without notice. h in full with order earns free packing or 50% with order and balance plus packing C.O.D. hose with established credit and to A.A.N. mem- rs 2% 10 days, net 30 days.

hipments made via railway express or parcel- st (10% of order for postage to accompany— ance refunded). Truck deliveries made at cost our schedule. 2% DISCOUNT ALLOWED ON PICKUP ORDERS. (Advance notice required.)

Georgia coastal plain experiment station, Tifton, will talk on "The Selection and Maintenance of Southern Turf Grasses." Dr. Cynthia Westcott, lecturer and author of "The Plant Doctor," will speak on "Insect and Allied Pests of Ornamentals" and on "Petal Blight and Similar Diseases."

On the afternoon program are Roy J. Feree, agricultural extension service, Clemson, S. C., talking on "Fruit Trees for Fun"; Senator Edwin G. Fraser, Southern States Nurseries, Macclenny, Fla., discussing "Container-grown Plants and Their Possibilities," and Jack Aichele, Carolina Floral Nursery, Mount Holly, S. C., moderating a question panel.

June 5 there will be an A. A. N. breakfast, with Sam Pettyjohn, Pettyjohn Nursery, Bainbridge, Ga., presiding, and John J. Bregger, Peach Ridge Nurseries, Clemson, representing the South Carolina contingent. Inspection and research problems in the area will be subjects of talks at the morning's general session. Both state groups will hold separate business sessions before adjournment at noon.

ALABAMA CONVENTION

The annual convention of the Alabama Nurserymen's Association will be held May 27 to 29 at the Russell Erskine hotel, Huntsville, Ala. Henry P. Orr, secretary-treasurer, has announced tentative plans for the program, which will have as its general subject production and marketing in the nursery industry.

Athens Nursery Co. and Strain & Sons Nursery, Athens, will be hosts to the group at a barbecue in Athens May 27. May 28, after association President E. E. Foster's talk, Dr. Tok Furuta, department of horticulture, Alabama Polytechnic Institute, Auburn, will speak on "Outlook for Marketing Research on Woody Ornamentals in the South." The A. A. N. film, "How to Sell Quality," will be shown, and there will be a guided tour of Redstone arsenal.

Two speakers have been scheduled to give talks May 29. Dr. Raymond L. Self, pathologist in charge, ornamental horticulture field station, Spring Hill, Ala., will discuss "Production of Disease-Free Nursery Stock," and Edward L. Daugherty, landscape architect, Atlanta, Ga., will give a talk entitled "A Look at Plant Material for the South."

John Fraser III, Huntsville Wholesale Nurseries, Inc., Huntsville, assisted by local nurserymen, is in charge of convention arrangements.

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EUONYMUS DU PONT is a selection of the small-leaved strain of Euonymus patens (Kiautschovicus), one of the most useful broad-leaved evergreens ever introduced.

It is characterized by small dark green, clean-cut leaves set closely on the stems. It is extremely bushy for its height. Two-year-old plants often have as many as 30 to 50 canes. Transplants easily.

Euonymus Du Pont has many uses: Hedges, formal and informal; foundation plantings; under picture windows; in planter boxes, and against walls.

	Per 10	Per 100
15 to 18 ins., T., well-branched	$6.50	$50.00
10 to 15 ins., T., well-branched	5.00	40.00
3-in. pots	3.50	30.00
2-in. pots	3.00	25.00

EUONYMUS FORTUNEI MINIMUS. Small dark green leaves. A creeping plant that will cling to brick, stone, stucco and rough boards. Use in rock gardens and on foundations and low walls.

3-in. pots	3.00	25.00
2-in. pots	2.50	20.00

EUONYMUS FORTUNEI, UPRIGHT (Upright Euonymus radicans). New. Grows upright naturally. Makes good shrubs and thick hedges. Can be staked and sheared into columns. Dark green leaves and stems the year around. Transplants easily bare root. We consider this one of the best and most useful broad-leaved evergreens introduced in recent years.

15 to 18 ins.	7.00	60.00
10 to 15 ins.	4.50	40.00
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EUONYMUS PATENS (Large-leaved). These plants were grown especially for hedging purposes or may be lined out to grow on for sheared specimen plants.

15 to 18 ins.	4.50	40.00
10 to 15 ins.	3.50	30.00

EUONYMUS PATENS (Small-leaved). Ideal for evergreen hedges. Makes a very bushy plant that may be allowed to grow informally, or by shearing can be made into a compact formal hedge anywhere from 10 ins. to 3 ft. high. Excellent substitute for boxwood in the middle west. Use for boundary hedges, or for enclosing rose and flower gardens and for formal planting. This is an extremely useful plant.

Can be planted any time of the year. Transplants very easily with a minimum of loss.

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2-in. pots	2.50	20.00

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LOUISIANA SHORT COURSE

Southwestern Louisiana Institute, Lafayette, La., will give the Louisiana short course for nurserymen June 11 to 13, according to information received from James A. Foret, professor of horticulture at the institute.

KENTUCKY SUMMER MEETING

The summer meeting of the Kentucky State Nurserymen's Association will be held June 26 and 27 at facilities in Kentucky Lake state park, Hardin. No formal program is arranged for the summer meeting, but one feature this year will be a barbecue held at the Fike Nurseries, Hopkinsville. Members and their families will be guests of the firm.

NEW ENGLAND DATE

August 15 has been set as the time of the summer meeting of the New England Nurserymen's Association, according to E. W. Witham, secretary. The group will meet at the C. R. Burr & Co. nurseries, Manchester, Conn.

MISSOURI MEETING

The annual meeting and short course of the Missouri State Nurserymen's Association will be held June 18 to 20 at the University of Missouri, Columbia, Mo., according to Prof. Harold E. Mosher, of the university's department of horticulture.

SOUTHERN CONVENTION

The annual convention of the Southern Nurserymen's Association will be held August 19 to 21 at the Andrew Jackson hotel, Nashville, Tenn. According to the office of Leo B. Scott, executive secretary of the association, an estimated 350 persons are expected to attend.

PENNSYLVANIA OUTING

The western region, Pennsylvania Nurserymen's Association, has set August 2 as the date for its annual summer outing. Eisler's Nurseries, Butler, Pa., will be the host for the occasion.

WASHINGTON CONVENTION

The Washington State Nurserymen's Association will hold its summer convention August 23 to 25, at the Davenport hotel, Spokane, Wash., according to Lenora G. Walters, secretary-treasurer of the group.



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That's what Dave and Charlie Dugan, owners of Dugan Nurseries, Inc., in Perry, Ohio, have to say about CRAG Herbicide-1. They're sold on *preventing weeds* with CRAG Herbicide-1 instead of spending extra money for unnecessary hand labor.

Besides saving time and money, you eliminate the danger of cultivation damage to your stock when you use CRAG Herbicide-1. And it's easy to use—just mix it with water and spray it on. CRAG Herbicide-1 will not hurt the leaves even when it's sprayed directly on your nursery stock.

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AQUIFOLIUM, 40 varieties, 3 to 6-in. pots, 10 to 30 ins.

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Almond, Pink, on own root		**Spiraea Anthony Waterer**	
3 to 4 ft.	**$75.00**	15 to 18 ins.	**$35.00**
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18 to 24 ins.	**45.00**	9 to 12 ins.	**20.00**

Tamarix amurense	Per 100
3 to 4 ft.	**$35.00**
2 to 3 ft.	**25.00**
18 to 24 ins.	**15.00**
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Adolph Krause, Krause Nursery, Spokane, is convention chairman.

TORONTO CONFERENCE

The National Shade Tree Conference will convene in Canada this year. The program has been scheduled for August 20 to 24 at the Royal York hotel, Toronto, Ont.

PENNSYLVANIA MEETING

The summer meeting of the Pennsylvania Nurserymen's Association will be held at the John Albrecht Nurseries, Narberth, Pa., August 15, according to Wilbur I. Nisley, secretary.

ROSEDALE EXPANSION

Rosedale Nurseries, Inc., Westchester, N. Y., last month opened additional facilities, designated as Rosedale-in-Dutchess, on Route 44, Mabbettsville, Millbrook, N. Y. The new establishment is the result of several years' planning and developing and includes a sales area with a parking lot, a large lath house and a garden store on more than 150 acres. Besides trees and shrubs, a complete landscape service will be offered to homeowners and industry.

According to Howard C. Taylor, president of Rosedale Nurseries, the additional nursery at Millbrook was built to meet the steady rise of home building and commercial construction in the mid-Hudson valley area. Mr. Taylor, a native of Dutchess county and head of the Westchester Nurseries for many years, states the two establishments will be run in close coordination.

NEW YORK'S STATE TREE

Governor Averill Harriman has signed a bill making the sugar maple the state tree of New York. This is the first successful legislation sponsored by the New York State Arborists' Association, with the cooperation of the New York State Federated Garden Clubs. Governor Harriman endorsed the bill in the presence of Mrs. John Lane, retiring president of the state garden club group; Francis Larmore, United Tree Co., Schenectady, and Dewhirst Wade, arborist, Pleasantville.

SPECIALIZING in the growing of shade trees is the Greenbrook Garden Centre, Route 22, Greenbrook, N. J., a new garden center and landscaping firm operated by Anton Eelman, Herbert Cohen and Morris Wellman.

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Root study of Prostrate Pfitzer Juniper. Heller-Gro was applied to Pfitzer on right at age of 3 months. Both were grown by usual methods. Picture taken of both evergreens at age of 11 months shows how Heller-Gro helped to produce an abundance of roots and luxuriant top growth of Pfitzer on right. Heller-Gro has been highly successful with all evergreens, including broad-leaved.

Heller-Gro is a concentrated paste plant food which produces sturdy root growth and luxuriant, deep green foliage. It shortens the growing period of young plants and trees — enables nurserymen to produce a salable product in half the time. Lawns, trees, flowers and shrubs take on new growth and beauty after the first application of Heller-Gro.

HELLER-GRO is composed entirely of USP ingredients.

HELLER-GRO dissolves easily and completely; never forms a residue.

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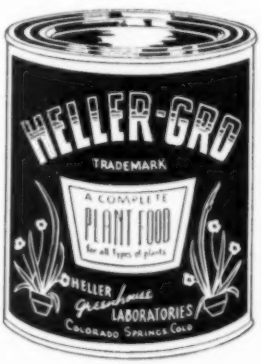
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I have reduced the time required to produce salable evergreens from cuttings in half by feeding Heller-Gro. Dick Winters, Colorado Springs, Colo.

I have never seen such a growth response — reaction of roses and shrubs is unbelievable. George M. Fisher, Landscape Consultant, Tyler, Tex.

I use Heller-Gro for liquid feeding because it is compatible with insecticides, does not burn and does the best job. C. L. Halvorson, Tree Expert, Pittsfield, Mass.

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XUM

Control of Crab Grass in the Midwest

By W. H. Daniel

While the major lawn grass of the midwest is Kentucky bluegrass, it is usually mixed with some other grass, such as rye, redtop, fescue and bent grasses, in prepared seed mixtures. While diseases are a problem on the lawn grasses, most homeowners are more concerned with the eradication of crab grass.

Whenever disease attacks thin the turf by killing older leaves, or any other condition weakens the turf cover, the crab grass seeds have a better chance to germinate and to survive.This is the reason the lawn owner or turf grass superintendent is repeatedly implored and encouraged to follow good management practices. Even though chemicals are available which selectively kill crab grass, proper maintenance should be the first and continuing part of the effort.

Bluegrass lawns or bluegrass mixtures will shade many crab grass seedlings if dense and cut two inches high. Actually this is as high as most lawn mowers can be set. When leaf spot disease kills older leaves, the new leaves left after high mowing enable the plant to remain dense. So high mowing of blue grass lawns is the first and cheapest thing to do to reduce crab grass.

Damp Spring Aids Crab Grass

In the midwest a warm front (damp, rainy weather with night temperature above 65 degrees) such as often occurs in early May provides ideal conditions for crab grass germination. Any time the temperature remains above 65 and the crab grass seeds get light and constant dampness for three to six days, they may germinate. For this reason, crab grass is often called water grass. Land owners should be discouraged from watering the lawn lightly and often, since it favors the repeated germination and survival of crab grass, as well as other turf weeds. However, in the midwest, even if the lawn is not irrigated, damp, wet spells may germinate a crop of crab grass seedlings.

On the other hand, many lawns will stay more uniform and vigorous if watered once a week during dry spells. Most lawn sprinklers need to be left in each spot over one hour to wet the root zone to a 4 to 6-inch depth. Usually it is wise to avoid excessive watering in July and August because it favors leaf diseases as well as vigorous crab grass growth.

At best, chemical control of crab grass is an attempt to provide a chance for improving the turf before the next crab grass season arrives. Chemicals used at the right time in the right way may contribute. A suggested time table follows:

February, March or April—During these months, the earlier the better, reseed thin spots, leaving old crab grass stems as mulch. Freezing will not hurt lawn seeds. Lead arsenate spread at 20 pounds to 1,000 square feet early may be toxic to crab grass seedlings later.

March, April or May—Fertilize with ample nitrogen (one pound actual nitrogen to 1,000 square feet). This encourages dense growth. Desired grasses have a better chance of shading crab grass seedlings.

Do Not Scalp Lawn

April, May or June—Mow lawn as high as mower can be set. Do not scalp the lawn. Before-emergence (preventive) chemical sprays may be applied monthly. These, to be effective, must be applied before the oldest crab grass plants are 3-leaved; so timing is most important. Also, ample material must be used to have toxic quantities for root uptake by the seedling. Repeat spray, about one month later. If control is less than perfect, a few crab grass plants may

Summary of a talk on "Lawn Pest Controls" given by Dr. W. H. Daniel, turf specialist, on the landscape day program during the recent short course held at Columbus, O.

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2-yr. sdlgs., 3 to 6 ins.	$10.00	$90.00

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French Hybrid Lilacs, best varieties, 6 to 12 ins., grafts, 1-yr.	27.50
Rhododendron Hybrids, red seed, 4 to 10 ins., transplants	45.00
Pink-flowering Dogwood, 10 to 15 ins., 2-yr. grafts	75.00
15 to 24 ins., 2-yr. grafts	85.00

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become obvious. The use of 2,4,5-T or 2,4-D for seedling knotweed in early April at two pounds actual acid equivalent per acre may delay crab grass infestation, also. In 1956 a dry formulation will also be available.

June or July—Watch thin, sunny spots in lawn for young crab grass seedlings. Do hand digging early. Isolated plants may be cut out with a kitchen knife. PMA (phenyl mercury acetate) can be used in three weekly applications at recommended rates (one fluid ounce to 1,000 square feet in two to four gallons of water) to kill young crab grass. At the same time leaf spot disease of bluegrass may be reduced. Excess rates applied may yellow bluegrass turf. If this occurs, do not stop treatments, but cut the rate one-half and continue weekly treatment until crab grass is dead. PMA is a poisonous mercury compound; so store carefully. It can cause skin burn; so keep hands washed and equipment clean.

Midsummer Program

July or August—When crab grass is being mowed. A semiselective foliar burning chemical, potassium cyanate (KCNO), is sold under many trade names for crab grass killing. These may be soluble powders or dry forms mixed with organic fertilizers or diluents. It is difficult to burn all the plant with one application; so plan three treatments seven days apart. Merion bluegrass is highly tolerant to KNCO, while susceptible to PMA damage. Bluegrass leaf tips will be burned by KNCO, but they are soon removed by mowing. Bent grass and fescue may be damaged at high rates. The preferred time of use is midsummer to kill existing crab grass before it becomes competitive with bluegrass. KCNO is also adapted for removing crab grass in early fall so that fertilizer and moisture can encourage a new vigorous fill-in of bluegrass.

Disodium methyl arsenate (DSMA) has shown highly selective crab grass control. Have the soil moist before and during application. In dry, hot weather, restrict applications to late afternoon. Two applications five to seven days apart are necessary, and treatment should be continued until crab grass is dead. If browning occurs, continue the treatment schedule, but cut the rate. As DSMA must be absorbed, the plants must be actively growing, and damage to the desired grasses will occur if the plants are going dormant.

September or October—As cool nights and fall rains begin, bluegrass, fescue and rye grass have favorable

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5000	Taxus cuspidata capitata 1-yr., S.	5c
5000	Taxus cuspidata capitata 2-yr., S.	10c

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growth conditions. This is one way to give bluegrass room. Set the mower to cut as close as possible, mow and rake; again mow and rake until all excess crab grass is removed; then spot seed where needed, fertilize and water thoroughly. Mechanical reduction in fall periods may be much easier than attempting chemical burning on the mature crab grass.

The lawn owner, if interested in chemicals, should select a good machine for uniform application. Also, he should pick out the most important areas and treat those regularly until the crab grass is dead.

Diseases of Lawns

After the crab grass problem is licked the lawn may still not measure up to expectations. One reason could be the effect of diseases on the grass. There are many diseases which attack lawn grasses. On five of the most used grasses there is a total of 26 serious diseases. Five of the most common turf diseases are:

Rust — Characterized by small raised red pustules over the leaf. The grass has a reddish-yellow appearance. Shoes and mowers show rust spores when grass is walked over. Actual damage is little; it is the discoloration which is objectionable. It occurs mainly in late summer and fall.

Curvularia—This disease appears in circles from three to 18 inches, gradually appearing through the summer. The grass is killed and turns straw color. It causes a spotty appearance in the lawn. It is prevalent through the summer and may be severe as the dead spots develop. However, grass recovers over winter from new rhizome growth.

Septoria—Dampness favors the development of white tips or ¼-inch sections in the newer leaves, followed by dying of uneven areas. The disease is usually of short duration. Damage seldom occurs, although it may kill some areas in late spring.

Powdery mildew—Is observed in late fall, giving a white, shiny covering of leaves. The leaf is still green when the mildew is scraped off. This causes little damage and soon disappears. It occurs in late fall.

Dollar spot—Causes areas one inch in diameter to turn white. The white mycelium is observable while dew is still on the grass. This does not occur often, and the damage is not severe. The grass will recover quickly.

While most of these diseases are not too severe, the keeping of a good lawn may require the use of fungicides.

Members of the insect family also

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BOSTON IVY		
2-yr., T., No. 1	$30.00	$250.00
2-yr., T., No. 2	17.50	150.00
2-yr., T., No. 3 (shorts)	10.00	75.00
CORNUS FLORIDA (White Dogwood)		
Below grafting size	5.00	30.00
Grafting and budding size	7.50	60.00
Above grafting size	12.50	10.00
2-yr., T., 18 to 24 ins.	25.00	200.00
2-yr., T., 18 to 36 ins.	50.00	400.00
CYDONIA JAPONICA, seedlings		
1-yr., 10 to 15 ins.	5.00	40.00
1-yr., 15 to 21 ins.	7.50	60.00
CALIFORNIA PRIVET		
1-yr., cuttings, 10 to 24 ins.	6.00	50.00
CORNUS FLORIDA RUBRA		
1-yr., grafts, field-grown	75.00	700.00

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	Single-stem Specimens	Choice Multiple Clumps
3 to 4 ft., B&B	$1.95	$ 2.50
4 to 5 ft., B&B	2.50	3.50
5 to 6 ft., B&B	3.50	5.50
6 to 7 ft., 1¼ to 1½-in. cal., B&B	5.50	6.50
7 to 8 ft., 1½ to 2-in. cal., B&B	6.00	8.50
8 to 9 ft., 1¾ to 2-in. cal., B&B	8.50	10.50

	Single-stem Specimens and Choice Multiple Clumps
8 to 10 ft., 2 to 2½-in. cal. (approx. 5 to 6-ft. spread), B&B	$12.50
8 to 10 ft., 2 to 2½-in. cal. (approx. 6 to 8-ft. spread)	15.00
8 to 10 ft., 2 to 3-in. cal., single-stem specimens and choice clumps	16.00
10 to 12 ft., 2½ to 3-in. cal. (approx. 5 to 6-ft. spread)	18.50
10 to 12 ft., 2½ to 3-in. cal. (approx. 6 to 8-ft. spread)	22.50

12 to 14 ft., 14 to 16 ft., with 6, 8, 10, 12, 14-ft. spread available with 3 to 5-in. cal., in choice clumps and single-stem specimens.

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damage our lawns. They range from those that chew on the roots and leaves to those that suck the juices from the plant. One of the worst is the grub which feeds on the roots. As it is below the surface, it may not be detected until damage has occurred. One good indication of the presence of grubs is the differential browning of the lawn after a rain following a drought. Look for the grubs if this condition occurs. Five or more square feet affected means trouble. The presence of starlings may indicate the presence of grubs. If they are found in numbers, chlordane or lead arsenate can be applied to the soil. For best results these two should be applied to the soil one month before an attack is expected.

Questions and Answers

Dr. Daniel received questions from the floor, the large number again indicating great interest, some of which follow:

Q. Will emulsified chlordane control the sod webworm?

A. Yes. Apply as a foliar spray every two weeks if there is a bad infestation. Rate of application is one to two pounds per acre.

Q. Is chlordane plus oil a reliable mixture for crab grass control?

A. It will work better on a smooth grass in midseason. I hesitate to recommend it.

Q. Is there any herbicide for silver quack grass?

A. A pocketknife is best. You may get some control with a pre-emergence chemical.

Q. Will any material prevent crab grass germination?

A. Crag Herbicide 1, Alanap, Alanap 1F, 2,4-D, 2,4,5-T, lead arsenate. We can get 95 per cent control, but not 100 per cent.

Q. Should lead arsenate be used dry or wet?

A. Spraying is best. When used dry, it needs about three pounds of Milorganite to 1,000 square feet as a spreader.

Q. What is a control for velvet grass?

A. CTEA is exceptionally good on the west coast.

Q. When should chlordane be applied?

A. Usually in the fall; however, my favorite time is in early May.

Q. How long does it take to kill grubs?

A. Two to four weeks will kill most of them.

Q. Can liquid fertilizers be combined with arsenate when applied?

A. Yes. If in doubt about mixtures

BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage. Over 200,000 for spring delivery. All sizes from 8 ins. to 3 ft. All B&B.

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8 ins.	$0.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00

CORAL BELLS

8 ins.	.75
10 ins.	1.00

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Our Hinos are very dark red.

8 ins.	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
30 ins.	6.00
36 ins.	7.50

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This Kurume azalea is the best we have ever grown. In foliage it looks exactly like the Hinodegiri but grows faster and is bright orange in color. We have 30,000 1-yr. liners ready for delivery. **$150.00** per 1000. Get some of this scarce item. Very hardy. Also in the following sizes:

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10 ins.	1.00
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15 ins.	2.00
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24 ins.	5.00

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18 ins.	2.50
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We have 130,000 transplanted liners ready for delivery in all the above varieties at **$150.00** per 1000. Come out and see them.

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100 6 to 7 ft. $2.70
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Acer (Norway Maple), branched
180 8 to 10 ft. 3.80
190 10 to 12 ft. 4.40

Acer Schwedler, branched
125 8 to 10 ft. 5.25

Acer rubrum, straight, well-branched
90 6 to 8 ft. 2.80

Ulmus (Chinese Elm), branched
200 3 to 4 ft. ..... .14
400 4 to 5 ft. ..... .22
60 8 to 10 ft. 1.55

ORNAMENTAL TREES

Mostly Pacific Northwest Grown

Betula (Cut-leaved Weeping Birch)
60 6 to 8 ft. 2.75

Cornus florida, white, well-branched
200 1½ to 2 ft. ..... .55

Crataegus (Paul's Scarlet Thorn) heavy, branched
30 6 to 7 ft. 3.85

Laburnum vossi, branched
40 6 to 8 ft. 2.75

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A new popular form for modern plantings.

Malus Almey
30 3 to 4 ft. 1.00

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21 1½ to 2 ft. ..... .50
50 2 to 3 ft. ..... .60
52 3 to 4 ft. ..... .80

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8 2 to 3 ft. 1.00

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30 3 to 4 ft. 1.25
20 4 to 5 ft. 1.40

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27 3 to 4 ft. 1.25

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83 4 to 5 ft. 1.00

Malus floribunda atropurpurea
195 2 to 3 ft. ..... .80
120 3 to 4 ft. 1.00
19 4 to 5 ft. 1.25

Malus fructo coccinea
30 1½ to 2 ft. ..... .80
50 2 to 3 ft. 1.00

BUSH-FORM CRAB APPLES—Continued

Malus Gloriosa
38 2 to 3 ft. 80.80
53 3 to 4 ft. 1.00

Malus halliana parkmani
17 3 to 4 ft. 1.00

Malus Hopa
73 2 to 3 ft. ..... .75
108 3 to 4 ft. ..... .90
78 4 to 5 ft. 1.00

Malus Katherine
5 2 to 3 ft. 1.25

Malus micromalus
16 2 to 3 ft. ..... .95

Malus rinki
37 2 to 3 ft. ..... .85
34 3 to 4 ft. 1.15

Malus niedzwetskyana
100 2 to 3 ft. ..... .70
80 3 to 4 ft. ..... .90

Malus eleyi
68 2 to 3 ft. ..... .70
90 3 to 4 ft. ..... .90

Malus scheideckeri
30 2 to 3 ft. ..... .90
30 3 to 4 ft. 1.15

Malus sieboldi
82 2 to 3 ft. ..... .85
82 3 to 4 ft. 1.15

Malus spectabilis
88 2 to 3 ft. ..... .80
38 3 to 4 ft. 1.00

Malus zumi calocarpa
109 2 to 3 ft. ..... .95
74 3 to 4 ft. 1.25

TREE-FORM CRAB APPLES

Malus Dolgo
60 3 to 4 ft. ..... .75
72 4 to 5 ft. ..... .90

Malus gloriosa
18 3 to 4 ft. ..... .75
28 4 to 5 ft. ..... .90

Malus parkmani
39 3 to 4 ft. 1.00
19 4 to 5 ft. 1.25
39 5 to 6 ft. 1.50

Malus Hopa
162 3 to 4 ft. ..... .75
105 4 to 5 ft. ..... .90
185 5 to 6 ft. 1.35

Malus Hyslop
52 5 to 6 ft. 1.25

Malus Bechtel
187 2 to 3 ft. ..... .95
167 3 to 4 ft. 1.25

TREE-FORM CRAB APPLES—Continued

Malus niedzwetskyana
39 4 to 5 ft. 80.75
132 5 to 6 ft. ..... .95

Malus scheideckeri
27 3 to 4 ft. ..... .75

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30 4 to 5 ft. 1.50
28 5 to 6 ft. 2.00

Prunus americana Newport Purple
45 5 to 6 ft. 1.00

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68 5 to 6 ft. 1.00

Prunus (Blood-leaved Peach)
120 3 to 4 ft. ..... .60
222 4 to 5 ft. ..... .75
60 5 to 6 ft. ..... .95

Prunus (Red-flowering Peach)
107 4 to 5 ft. ..... .75
37 5 to 6 ft. ..... .95

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61 4 to 5 ft. 2.00
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46 6 ft., 1¼ to 1½ ins. 4.85

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110 1¼ to 1½ ins. 3.75
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182 15 to 18 ins. ..... .09

Forsythia spectabilis
2775 9 to 12 ins. ..... .05
2700 12 to 15 ins. ..... .06
2075 15 to 18 ins. ..... .08

Lonicera morrowi
1325 9 to 12 ins. ..... .04½
1015 12 to 15 ins. ..... .06

Lonicera tatarica
975 9 to 12 ins. ..... .05
925 12 to 15 ins. ..... .07

Philadelphus virginalis
1850 9 to 12 ins. ..... .03
1750 12 to 15 ins. ..... .05
1325 15 to 18 ins. ..... .09

Populus nigra italica
850 2 to 3 ft. ..... .02½
1250 3 to 4 ft. ..... .06
1400 4 to 5 ft. ..... .10

Salix purpurea nana
1450 9 to 12 ins. ..... .06
1800 12 to 15 ins. ..... .09

Symphoricarpos albus
1125 9 to 12 ins. ..... .04½

Tamarix africana
260 15 to 18 ins. ..... .05
1140 2 to 3 ft. ..... .06½

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of materials, put the mixture in a jar and let it stand.

William D. Chambers

CONVENTION SPEAKERS

[Continued from page 9]

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Going to work for the Stabbert Construction Co. at Tacoma, Wash., he trained as a structural engineer and became superintendent and then a partner in the company. From 1937 to 1944 he was assistant administrator of the federal works agency for western United States, Alaska and Hawaii. Later he carried out numerous government administrative appointments. In 1945 he founded a company distributing farm machinery in Nevada and California, and in 1950 he became principal

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owner and president of a company handling the distribution of farm machinery in Washington, Oregon, Idaho and Alaska. Holding directorships in several industrial firms, Mr. Nicholson was a director of the Liquid Carbonic Corp. before becoming its president in January, 1956.

Dr. Allen A. Stockdale, who will address the convention Thursday, July 19, is a speaker whose international reputation is based upon his ability to portray the human side of business and industry. As staff speaker for the National Association of Manufacturers since 1937, Dr. Stockdale has made more than 4,000 talks in the 48 states and Canada. Equally at home with workers, foremen, employers, housewives and students, Dr. Stockdale is one of the best informed and most dynamic spokesmen for industry in the United States today.

Born in Ohio, Dr. Stockdale was graduated from the Boston University school of theology. He studied later at other American universities and at Oxford, England. In 1952, Dr. Stockdale was awarded the alumni medal for distinguished public service at his 50th reunion at Boston University and recently published a book entitled "Unconventional Prayers."

A college and amateur baseball player and always an ardent fan, Dr. Stockdale is widely known as "the Pitching Parson" and counts many of the present and former big-league players among his personal friends.

Before joining the staff of the National Association of Manufacturers in 1937, Dr. Stockdale held major pastorates in Boston, Mass.; Toledo, O.; Chicago, Ill., and Washington, D. C.

OBITUARY

Albert Tinsley Bracken

Albert Tinsley Bracken, 72, co-owner and operator of the Easley Nursery, Easley, S. C., died recently at his home after an extended illness. Born in Transylvania county, North Carolina, he moved to South Carolina in 1910 and spent most of his life in Pickens county. For 10 years Mr. Bracken operated the Liberty Nursery, at Liberty, before he became operator of the Easley Nursery, in 1942. Surviving are the widow, six daughters, three sons and three sisters.

GRAND opening of the new Countryside Village, 87th and Pacific, Omaha, Neb., of Earl May Nursery & Seed Store was held recently.

NEW

Heavy-duty plastic tarps

Larvacover made of MONSANTO ULTRON Vinyl Film


steam soil sterilization


seed bed fumigation


light diffusion and insulation

Tougher, more efficient tarpaulins for large area covering are ready now to make money for nurserymen, vegetable growers and florists everywhere.

Larvacovers, tested by leading state universities, are recommended for low-cost soil sterilization, bulk soil fumigation, waterproofing of greenhouse benches, and light diffusion and insulation.

These heavy-duty, easy-to-handle tarps are made of Monsanto Ultron—a tough, waterproof, mildew-resistant vinyl film. They also resist deterioration when exposed to sunlight, severe weather conditions, fumigants and other agricultural chemicals.

Because Larvacovers have high gas retention, thorough fumigation is possible with a minimum use of toxic agents. Fuel can be saved on steam sterilization. A special Florist Green pigment has been added so Larvacovers can also be used effectively for controlled plant shading.

Larvacovers are supplied in both heavy-duty thickness and standard gauge. There is no fire hazard because the material is self-extinguishing. All standard sizes are carried in stock—custom sizes made to order. Ends have 2-inch hem for tear resistance and good grip in handling. Where seamed, Larvacovers are fabricated electronically with a full half-inch flat seam.

The Ultron vinyl film used in Larvacovers is made by the Monsanto Chemical Company, Plastics Division, Springfield 2, Mass. Mail coupon for full information.

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Please send me, without obligation, descriptive literature and prices for new Larvacovers made of Monsanto ULTRON vinyl film. Also name of nearest dealer.

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XUM

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

ASYMMETRICAL PLANT USE

Usually the customer desires, and I like to sell, symmetrical plants, but in some landscape uses, odd or picturesque shapes are more attractive. Every now and then a customer asks for a crooked tree for a certain situation, and a wag once said the nursery should have a crooked tree department. Use of crooked trees, however, is definitely limited, and they are attractive only in certain situations. A grove of crooked trees would be as horrible as a herd of iron deer.

In nature, a picturesque wind-blown tree looks beautiful if it is authentic and is growing on a rocky wind-blown coast, but such a tree would look out of place in a garden. Sometimes an irregular tree can be attractively featured in a garden if it is softened by other types of growth. The picturesque tree really looks its best when associated with an architectural feature such as a garden wall or a garden house or reflected in a pool. Such trees are best used singly, for I cannot think of anything more incongruous than a matched pair of crooked trees.

In this section of Maryland, I often find along the shore lines a picturesque loblolly pine, a wind-blown cedar or a naturally irregular hackberry.

Clump Birch

Perhaps the most common plant grown for its asymmetry by nurserymen is the clump birch. It is admittedly attractive and has several uses, against an evergreen background and as a feature in the small garden, and it adapts itself well to use around the ranch-style house. Unfortunately, its use except in the north or the cooler parts of the country is not entirely satisfactory. It is troublesome to grow in the Chesapeake bay region. There are several alternative plants, but none of them offers a substitute for the attractive white bark of the birch.

Among plants that can be trained by judicious pruning to grow into several branched trunks are the dogwood, particularly the white; the American holly; the common lilac, and the crape myrtle. Although the crape myrtle does not have a white bark, it does have a most interesting tan bark that flakes in creamy patches.

A few of the shrubs, particularly some of the broad-leaved evergreen shrubs, lend themselves to forming miniature clumps or irregularly shaped plants and may be used against walls as quasi-espaliered plants. They include Euonymus patens, tree box, wax privet and pyracantha.

To Grow a Crooked Tree

In spite of what one may think, sometimes with disgust, it is not easy to grow a crooked tree. Plants by nature tend to grow straight up and to be symmetrically branched. Crooked trees can be created by training and pruning, or they may be adapted from ones that have blown over or been damaged in some manner or crowded in some way. My father used to like to tell the story of a nursery manager who saw a succession of trees that he had planted by a well on the nursery grounds sold to various customers. Finally, in disgust, he selected two of the most crooked and misshapen red oaks he could find and planted them. They grew into two straight handsome specimens, but by that time they were too large to move.

Certain large-growing conifers in full maturity or even old age develop a distinct character, losing their lower limbs and developing an irregular top. Not all evergreens do this. Notable examples are cedar of Lebanon, white pine, loblolly pine and, I believe, certain natives of the far west such as the Monterey cypress.

The picturesque tree or plant has a number of attractive uses in the garden landscape just as long as it is used as a graceful touch rather than a dominating note.

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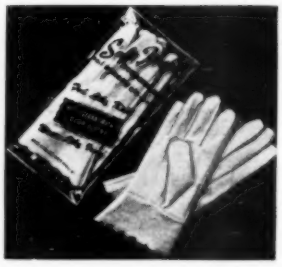
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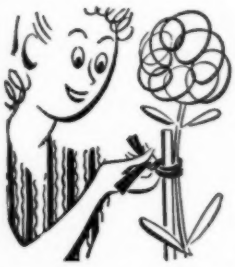
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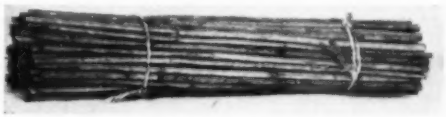
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PLANT NOTES HERE AND THERE

By C. W. Wood

Primula Elatior

There is not a little justification for the correspondent who recently inquired about the oxlip, or for any gardener, for that matter, to become confused in the realm of cowslips, oxlips and primroses. Even the botanists have had their moments of confusion, one judges from the literature, having let the natural product of the union of the cowslip and the primrose, where these two occur together, confuse the oxlip situation. Now everybody seems happy to give a crinkly-leaved, tufted plant, pubescent below, with pale yellow flowers in a many-flowered umbel in early spring, on stems to 10 inches or so in height, the right to the name Primula elatior.

It has behaved so poorly in the light sandy soil of northern Michigan that I long ago gave up trying to grow it. An English neighbor who brought in clay from a river bank miles away has told me repeatedly that P. elatior does almost as well for him as it did in England, though he cannot expect it to bloom here on St. Valentine's day as it did in England (this year this section of Michigan had more than a foot of snow on February 14). I believe that a fairly heavy soil is needed to grow the oxlip at its best. Although it has shown slight variation in its yellow color growing in different areas across Europe from England into Asia, as far east at least as Persia, it has been consistently pale yellow in plants grown from seeds in Michigan. If a particularly good form should show up, it may, of course, be increased from divisions.

Primula Wanda

As I wrote the foregoing note on the oxlip, it occurred to me to say a good word for the juliae hybrid, Wanda. Juliae hybrids come and go (a few years ago I knew of a collection of more than 30 kinds, and the owner said he had only scratched the surface), but Wanda keeps on and on. There are reasons for that, of course, and the principal one could well be that it is among the most floriferous of its kind. I have grown many of the juliae hybrids through the years and have yet to find a better performer than Wanda. If you have use for a primrose of rich, deep violet, you are well-advised, I think, when you are told to take a look at Wanda.

Potentilla Verna

The cinquefoil, Potentilla verna, travels over much of Europe and western Asia, and as it travels it varies considerably, giving rise to not a few local forms, one of which, variety nana, I should like to discuss later. Its early flowering season has endeared it to country dwellers throughout its wide range, as one can learn by inquiry among European-born friends about the spring cinquefoil. European students of the genus remind us that verna is scarcely distinguishable from the mountain species, P. alpestris. However, that did not apply to any form of either plant that I ever grew, including many seedlings, because verna never has the orange center of the other and blooms much earlier, usually commencing in May (early May in variety nana), while alpestris usually delays its flowering until midsummer. Now let us examine the form known in gardens as nana.

It should be an important plant for the rock gardener, especially all those who have neither the time nor the inclination to take care of the many problem plants grown by the pure alpinist. My first acquaintance with P. verna nana was by way of an English friend, who, in sending me seeds, said that it grew in England

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Wayside Gardens

in dry pastures. Of course a dry pasture in England is not the same as a dry pasture in the middle west of this country, where "dry" can really get "dry" in the summer; so I was not prepared to see how easily the plant can take the cruel punishment of our summers. Given a dry, sunny spot on a plateau in the rock garden, where it can be plainly seen, it should make its owner happy by spreading a low, neat, green carpet of cinquefoil leaves, bearing in May an abundance of pretty, pale golden-yellow flowers. It is easily multiplied by division (and that is not a paradox or a figure of speech).

Adonis Vernalis

In a garden where I get much inspiration, there occurred a conversation of the past spring which still leaves me puzzled. The gardener, a deep student of flowers in all their aspects, and I had just examined a large clump of Adonis vernalis, during which time he had remarked that its only drawback, in his opinion, was that an otherwise brilliant yellow flower had been dulled by an infusion of green in its make-up. Knowing his love for the new yellow and green daffodils, I asked for a reconciliation of the two views and was told that it was a subtle inner feeling impossible to explain. It must be that my soul lacks the ability to make these fine distinctions, but it may be possessed by many gardeners, because the greenish-yellow daffodils are highly popular and adonis is seldom seen in gardens that I visit. Perhaps the tendency to neglect the adonis could be corrected if more neighborhood nurserymen included the plant in their show gardens; that is a logical conclusion, anyway, for few modern gardeners have ever seen the plant.

A. vernalis really does not compete with its more popular relative, A. amurensis, because the latter is ready to burst into yellow bloom just as soon as retreating winter releases it from the clutches of frost, while vernalis holds back for a fortnight or so (usually the second or third week in April, according to records for northern Michigan). Vernalis is also larger in all its parts, including height (a foot or so) and size of flower (to three inches across). It is best grown from seeds sown as soon as ripe (May).

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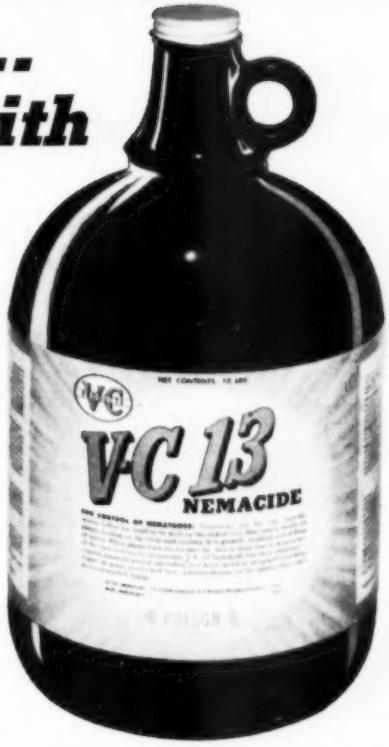
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ard's report that "these herbes are mixed with compound medicines that mitigate the paine of the eies, and by reason of this cold quality, being fresh and greene, it helpeth the inflamation of fiery heate of the eyes," to that of Theophrastus, who said "That it killeth Cattell, Sheep, Oxen and all foure-footed beasts, within the compasse of one day," there is no question among modern gardeners who have grown the plants about their garden and cut flower value. And that estimate may be further increased when our gardeners become acquainted with the fairly new, named variety that heads this note. It is one of the spring-flowering kinds, blooming with the tulips, which it supplements with grace and charm, its large, daisylike flowers, above a tuft of heart-shaped leaves, showing off especially well the lavender and blue tulips. As an added recommendation, the doronicum also cuts well. Hardy and disease free, it offers no difficult cultural problems, doing well in most good garden soils, perhaps better in clay, but needs moisture during its growing season. It is dormant in July and August; so one should make provision for that period.

Erythroniums

A recent inquiry on Erythronium montanum, the avalanche lily, makes me think that a general survey of the genus might be useful at this time. I shall use the names by which I have known the plants for close to a half century and which are generally known to gardeners, letting the botanists have fun in their cloisters as they try to confound us by name changes. I notice that they have changed my old friend E. hartwegi to E. multiscapoideum and, worst of all, my copy of "Hortus" does not mention E. montanum at all.

According to my experience when I grew all the kinds that I could get hold of back in the 30's all erythroniums, even high mountain forms E. grandiflorum and E. montanum growing near and above timber line, should have some shade when planted in eastern gardens. Most kinds are essentially woodland plants, and garden culture will be made easier if planters will remember that fact. Even the far western kinds that grow readily there in open situations are used to more moisture than they are likely to get in the middle west and therefore are better off with some shade. In addition to the foregoing, they need a well-drained soil that contains much leaf mold.

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which spend so much time reproducing their kind that they produce few flowers, need no comment here. The other two eastern kinds, E. mesachoreum and E. propullans, are practically never seen in plant lists or in gardens and are little known even to gardeners in their natural range, as I find from correspondence. The first of these is the prairie adder's-tongue, restricted to Missouri, Kansas, Nebraska and Iowa, I believe. Its leaves are narrow, oblong-lanceolate, not mottled, and the flowers are bluish-lavender. It is the only eastern species that bears no basal offsets. The other, E. propullans, which occurs naturally only in Minnesota and adjacent Canada, it is said, has bright rose-colored flowers, yellowish at the base.

Western Species

At least two western species, E. hartwegi and E. tuolumnense, follow the usual eastern habit of producing offsets. The first of these is the earliest of westerners to bloom, so far as I know them, and produces its orange-centered, cream-colored flowers quite freely for an offset maker. Contrary to what has been written about it, its flowers were not solitary in specimens that I grew, but were borne in a sessile umbel. The other, E. tuolumnense, has been brought into cultivation since I have been gardening (I had it from Carl Purdy the first year he had it). It has large, unmottled leaves and golden-yellow flowers.

E. californicum should be a favorite in eastern gardens, for it is longer-lived than most erythroniums and is a generous producer of large creamy flowers on 6-inch to 8-inch stems. Its variety bicolor has decidedly fragrant blooms. The inside of the flower is a bright yellow and the outside pure white. E. citrinum is a taller, more erect plant, with 10-inch stems, carrying many flowers that are almost white, the lower part citron and the center orange. It, too, is quite dependable in the east.

Erythronium Grandiflorum

The glacier lily, Erythronium grandiflorum, is a beauty and, like many beauties, is not dependable. It apparently needs perfect drainage and constant moisture, which probably means that it will want moraine treatment. The plant, in a suitable location, is robust, growing up to a foot in height, with lovely, bright yellow flowers and unmottled leaves. A variety minus, which I have had two or three times from collectors, does not seem to be constant in its small size, and two other varieties, nuttallianum and parviflorum (both have been given specific rank by some

botanists, I believe), which are supposed to differ from grandiflorum in having purple or brown anthers, have not been constant in that character, either, in my trials, and western correspondents say the same for material in nature. There is a form of E. grandiflorum, which I have had as variety robustum, which holds most promise, I believe, for the gardener. It has brought its bright yellow flowers and unmottled leaves down from its high home near the eternal snows of alpine peaks and is found near sea level. That is probably the reason it grows better under conditions of the east. It is not, however, to be confused with another large form known as E. giganteum, which is a giant from the woods of Oregon and Washington, with green and white mottled leaves and pale yellow flowers.

When one reads of E. montanum, the avalanche lily, pushing up, "almost through the snow," on high mountain peaks, one understands why it is so hard to grow it successfully in lowland gardens. After repeated trials I am ready to admit that it is not a plant for general cultivation in the east. It might succeed in the so-called wet moraine, a rather difficult contrivance for the average gardener, but the average gardener

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might not think that its large, orange-centered white flowers, on stems to fifteen inches tall, were worth the effort. There is no mistaking the fact, though, that it is a beautiful thing.

I used to get E. purpurascens from that famous old California collector, Carl Purdy, but since his nursery discontinued operations I have not seen the plant. Since it is short-lived (whether from tenderness or inability to grow in the dry soil of northern Michigan I was never able to make sure), I have not seen it for several years. As I remember, it varied not a little in stature, from a few inches to the loftiest, always, I think, with small, pale yellow flowers with orange centers and tinged pale purple, crowded in racemes. It suffered so much during dry weather that I should expect it to be unsatisfactory as a garden plant in most eastern sections.

I should have mentioned E. howelli along with E. citrinum, because they are so similar that no one but a specialist would need both. It is quite permanent in the east.

Erythronium Revolutum

It is fitting that E. revolutum has been left for last, because it is the most pleasant experience in the genus, so far as I know it. And if the westerners ever become popular in the east, it will probably be this highly variable species that will turn the trick. As it has traveled through the coast range through northern California, Oregon and Washington, it has varied into several forms, some of which have received names from western nurserymen. The type has from two to four leaves, mottled white or brown on a green base, and white to lavender-white flowers. Of its forms that impressed me most when I had them on trial, the following may be mentioned: Johnsoni, rose-pink flowers; Pink Beauty, lavender-pink flowers; albiflorum (variety watsoni of some), flowers pure white with a band of maroon (a beautiful thing that proved to be short-lived

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in my trials); praecox, leaves mottled mahogany and brown, flowers cream-colored with a maroon band, and Rose Beauty, deep rose-colored flowers.

Generally speaking, plants of this group are fairly permanent in the east. Considering the beauty of their mottled leaves and showy revolute flowers, gardeners will probably find them of most interest.

EVERGREENS are being grown on five acres of land at Whispering Pine Nursery, Wood street, Mahopac, N. Y., new wholesale nursery being operated by John, Thomas and Margaret Kuck.

JERUSAN NURSERY, Monticello, Ky., which began business in the spring of 1955, has opened the Jerusan Garden Center on South Main street, Monticello, this spring. Mrs. L. V. Roberts is manager.

H. S. WEYERS, Brookings, S. D. began operation of a nursery April 1, on two acres of land south of the city, where he will feature bulbs and hardy chrysanthemums from the Netherlands. Coming to this country with his family about a year ago, Mr. Weyers was for a time employed at the greenhouses at South Dakota State College.

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REDWOOD EMPIRE CHAPTER

President P. T. Peterson presided at the largest meeting to date of the Redwood Empire chapter of the California Association of Nurserymen. It was held April 10 at the El Rancho motel, Santa Rosa. There were 75 members and guests present.

The meeting was called to order after most of those present had attended an open house at Prickett's Nursery, which was showing its new store. The nursery is operated by Harold Prickett.

Because of the crowded program for the evening, President Peterson dispensed with the business meeting and called upon the social chairman, Mrs. Prickett, to introduce guests present. Those from other chapters were Ray Hartman and Mac McGraw, Peninsula chapter; Stewart Wade and Mr. and Mrs. Hollis Grey, Central chapter, and Pressley Jones, Los Angeles chapter. Others present were Mr. and Mrs. Richard Terril, new members, from the Green Tree, El Verano; Mr. and Mrs. Bancroft, Valley of the Moon Nursery, Sonoma, and Mr. and Mrs. Wedikind, Wedikind's Nursery, Sonoma.

Program Chairman Ruth Cullen introduced Mac McGraw, of Nursery Metal Pots, Inc., San Francisco, who showed a short film on container-grown nursery stock.

The meeting was then turned over to Pressley Neville Jones for a safety program. His assistant, Mr. Morgan, from Lumberman Insurance Co., spoke on liability insurance. Mr. Jones gave many hints of safety to be observed both at work and in the home and distributed booklets covering various phases of safety. H. W.

CALIFORNIA NOTES

The theme of the fall garden show which will be held in the Oakland auditorium, Oakland, September 21 to 28 is "Autumn Splendor" according to an announcement by the co-designers, Robert Babcock and Mason Whitney. The Oakland show was not held this spring as had been the custom for nearly 25 years. The fall show is an experiment. A spring show will be held in 1957. After a survey of exhibitors, advertisers and visitors to the shows a decision will be made whether to return to spring shows or continue fall shows.

The 22nd annual bulb show at the California Nursery Co., Niles, which ran through the first two weeks in April, drew the largest registration in its history, according to owner-manager George Roeding. Over 44 varieties of daffodils, hyacinths, tulips and Dutch iris were on display and in flower nearly all during the show. Buyers from miles around attended the show, which was advertised in newspapers and on TV programs conducted by Albert Wilson.

The convention of the National Shade Tree Conference, which will be held in Palo Alto late in May, is receiving a large preconvention registration. Exhibits in the trade fair will be more numerous than they have been for many years, due, in part, perhaps, to the excellent facilities offered. The program has been firmed. One of the most recent to have accepted an invitation to talk to the group is Fred W. Roewekamp, landscape gardener for the Los Angeles city park system. Walter D. Howell, manager of sales for the Pacific Gas & Electric Co., will report on the model tree ordinance which his company has drawn up. The Ferry-Morse Seed Co., which has its local headquarters at Mount View, will sponsor a social hour from 5:30 to 7:30 May 23, according to information released by Allan Reid, president of the conference. A number of honorary members were elected, and plans for a 1957 convention at Yosemite park were considered. Directors present included President Allan H. Reid, Palo Alto landscape architect; Millard F. Blair, Mount View tree surgeon and

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editor of the group's newsletter; Maunsell Van Rensselaer, director, Saratoga Horticultural Foundation, Saratoga; Keith Davey, regional director and president, Davey Tree Surgery of California, with headquarters at Belmont; Leslie S. Mayne, San Mateo tree surgeon and director at large, as well as vice-president of the California Arborists Association, and Eugene S. Cox, Palo Alto.

W. B. B.

OREGON NOTES

A new soil-testing service is now available to nurserymen, farmers and other growers, according to Dan Evans, in charge of the soil physics laboratory at Oregon State College. The new service will measure the amount of moisture the soil can hold available for plant use. These measurements will assist soils specialists and county agents to make recommendations for more efficient irrigation and commercial fertilizer applications.

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Our new catalog will be issued June 1.

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CONIFERS AND BROAD-LEAVED EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES

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	Price Each 50 or More
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Red Maple (Acer rubrum)	
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Pioneering Seedling Growers on the Pacific Coast Since 1914.

Specializing in Fruit Tree Seedlings and Shade and Flowering Trees.
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Write for new list and prices. Contracts and advance orders solicited.
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Our 1956 catalog lists the most comprehensive collection of northwest-grown species and hybrids available. Hardy Cyclamen a specialty.
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CRAB APPLES FOR AMERICA, by Donald Wyman. Breeding, propagation, culture, sources of supply. 63 p. **$2.00.**
American Nurseryman Chicago 4, Ill.

scape architect, was eulogized in the Farm, Home and Garden magazine section of the Oregonian April 15. In a full-page illustrated article the paper made mention of her selection last October as a member in the American Society of Landscape Architects (there are only five members of the A. S. L. A. in the state and she is the only woman) and told of her various major accomplishments as a landscape architect. The rest of the article dealt with a particular job of planning the grounds of a Salem home.

Northwest Living magazine section of the Oregon Journal, April 22, contained an article on garden shrubs by Florence H. Gerke, landscape architect.

A large number of nurserymen of the state recently met at the Portland Wholesale Nursery Co. offices, Portland, to discuss problems of the current season. A few days later landscape gardeners also met at the same place to discuss items of interest to their industry.

The O. A. N. Digger, publication of the Oregon Association of Nurserymen, launched May 1, held considerable news of members and interesting events. The publication is being mailed to organized nurserymen of the Pacific northwest. Charles Potter, executive secretary of the O. A. N., is editor.

The Oregon Association of Nurserymen has become affiliated with the American Horticultural Council.

Avery Steinmetz, Portland Wholesale Nursery Co., left April 14 for a 3-week business trip through California.

Richard P. Ressel, Mulino, now has equipment, powered by an electric generator, which operates a gang of electric trimmers, making fast and easy work of shearing conifers and other stock in the nursery row.

Ambrose Brownell, holly grower and shipper of Milwaukie, was pictured in the Northwest Living Magazine for April 22 alongside of some large balled holly trees being readied for shipment to Washington, D. C. The 11 trees were from eight to 11 feet high and were shipped to Mr. and Mrs. Meriwether Post for a spring garden party. They weighed more than two tons and the shipping cost was about $600. Total cost to the Posts, said Mr. Brownell, was about $3,000. C. H. P.

NEWLY established is the Green Sprout Nursery, 230 West Harvard boulevard, Santa Paula, Calif., operated by Mr. and Mrs. Stanley Wakeham.

FIRE DAMAGE FACTS

One of its few honorary members, Dr. Willis Wagener, was speaker at the April 18 meeting of the California Arborists Association. Dr. Wagener is a research worker with the California forest and range experiment station, which has its headquarters at Berkeley. His topic, illustrated with slides, was "Survival of Fire-damaged Trees."

The history of this research goes back, according to Dr. Wagener, to a severe forest fire loss in the Plumas area of California in 1939. The fire swept over an extremely large area, came at a time when damage was abnormally great for the amount of fire and was in a location where it was most desirable to salvage as much as possible. It was realized that no one could tell, with reasonable assurance of correctness, just which trees would survive, and there seemed to be no good index to follow to obtain this information.

The results of the study carried on then and later were summarized as follows:

There is a greater loss from fires occurring early in the season, when trees have used up food reserves in the production of leaves. When the growth rate is low, due to poor growing conditions, poor soil or other factors which result in a slow plant growth, the fire loss is less than under conditions of fast, soft tree growth. Older trees have a smaller chance of recovery than do younger trees damaged to the same extent. Bud kill is more indicative than crown kill, for if the buds are badly damaged, the tree has nothing on which to build its future growth. There is a variation of response in species, the ponderosa pine, for example, being better protected than the sugar pine.

Dr. Wagener gave general information on how to make a quick survey of a burned-over area to determine general survival possibilities, as well as to obtain information of value to arborists who may be called on to determine the survival chances of street or home ground trees injured by fire. Among the findings were the facts that a heavy needle fall often indicates that the survival possibilities are good; heavy cambium injury on the side away from the fire is serious, for it indicates a rather complete girdling of the cambium; bark damage often is misleading, for it may have protected the cambium while suffering considerable charring.

The fire damage itself, according

[Continued on page 60]



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Boskoop, Holland
Reliable exporters for general nursery stock since 1922.
Catalog on application

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Originators of Azalea Vuykiana.
Growers of choice Nursery Stock.
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Hardy and semihardy varieties. Quality only
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WHOLESALE
AMERICAN and HOLLAND GROWN BULBS
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CLASSIFIED ADS

Rate: 35 cents per line, each insertion. **Minimum order, $3.50**

Instructions for the next issue must be received by Friday, May 11.

Forms for June 15 issue will close Friday, May 25.

AZALEAS

AZALEAS FOR GROWING ON
Healthy plants for May and June shipments.
TRANSPLANTS.
Pinched and branched, should make good 4-in. pots for fall 1956.
KURUMES and PERICATS

2400 Coral Bells	25,000 Hexe
1500 Chas. Encke	4,000 Hexe de Saffelare
3000 Distinction	900 Hinodegiri
2500 Eugene Pink	900 Salmon Beauty

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600 Adrian Stuyart	1600 Prof. Walters
500 Avenir	2000 Paul Schaeme
1900 Albert and Eliz.	3000 Rose Queen
6800 Dresden	4000 Sweet Sixteen
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2400 Jean Haerens	5000 Pride of Dorking
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Above, $15.00 per 100, F.O.B.; $17.50, delivered, express prepaid. No order of less than 200, in units of 25 of a variety.
LINERS, OUT OF 4-IN. POTS
Should make good 6-in. pot plants next fall, $25.00 per 100, F.O.B. Upland; $35.00 per 100, delivered, express prepaid. No order of less than 100 in units of 25.

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600 Distinction	Cruyssen
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500 Marie Louise	400 Orchidflora
1,800 Snow	1950 Paul Schaeme
1,000 Sweetheart	1000 Perle de Noisy
Supreme	1350 Queen Astrid
850 Adrian Stuyart	500 Sweet Sixteen
3,500 Eric Schaeme	500 Triomphe
2,000 Lentengroot	350 Violacea

TERMS: Cash must accompany order. Write for quantity prices and special offers.
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AZALEAS, TRANSPLANTS
Open bed-grown, full sun, in peat moss, M-C-2 treated.

KURUMES	100	1000
4 to 6 ins.	$10.00	$90.00
Bridesmaid	Hino-Crimson	
Coral Bells	Peachblow	
Double Mauve	Salmon Beauty	
Hexe	Salmon Queen	
Hexe de Saffelare	Snow	
Hinodegiri	Snow 125	

HARDY JAPANESE	100	1000
4 to 6 ins.	$10.00	$90.00
Amoena	Macrantha, double	
Flame	Macrantha, orange-red	
Hardy Firefly	Macrantha, pink	
Judd	Sherwoodi	
Kaempferi	Hardy Firefly	
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PERICATS	100	1000
4 to 6 ins.	$10.00	$90.00
Gardenia Supreme	Sweetheart Supreme	
Mme. Pericat	Twenty Grand	
Pink Pericat		

SOUTHERN INDICAS	100	1000
6 to 8 ins.	$10.00	$90.00
Brilliant	Judge Solomon	
Coccinea Major	Mme. Dominique	
Elegans	President Clay	
Fielder's White	Pride of Dorking	
Formosa	Pride of Mobile	
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Phone: Mobile, Ala., GA 6-1700.

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	Each
Mollis, 10 to 12 ins., B&B	$0.70
12 to 15 ins., B&B	.85
15 to 18 ins., B&B	1.30

	Per 100
Mollis, 4 to 6 ins.	$15.00
6 to 8 ins.	20.00
8 to 10 ins.	25.00

These are 2-yr. transplants, heavy sheared.

Boudoir, 2-yr. transplants	$20.00
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Herbert, 2-yr. transplants	20.00
Hino-Crimson, 2-yr. transplants	20.00
Othello, 2-yr. transplants	20.00

Cash with order earns free packing or ¼ with order, rest C.O.D.
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Mentor, O.

AZALEAS FOR GROWING ON
Ready from now on.
Take advantage of fast southern growing and northern finish. Grown in heavy peat. Well finished.
KURUMES

Bridesmaid	Hinodegiri
Christmas Cheer	Hino-Crimson
Coral Bells	Pink Pearl
Double Mauve	Salmon Beauty
Hexe	Salmon Queen
Hexe de Saffelare	Snow

PERICATS

Mme. Pericat	Sweetheart Supreme
Pink Pericat	

	Per 100	Per 1000
3 to 5-in. head	$30.00	$250.00
4 to 6-in. head	45.00	400.00
6 to 8-in. head	65.00	600.00

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3 to 5-in. head	$50.00	$450.00
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FIELDER'S WHITE	JUDGE SOLOMON
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MACRANTHA, DOUBLE PINK
MACRANTHA, ORANGE

	Per 100	Per 1000
6 to 8-in.	$10.00	$90.00

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DAWN (PERICAT)	HINODEGIRI
HEXE	HINO-CRIMSON
HEXE DE SAFFELARE	PINK PEARL

	Per 100	Per 1000
4 to 6-in.	$10.00	$90.00

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Well-rooted, well-branched, top quality.

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Coral Bells	Judge Solomon
Hexe	Pres. Clay
Hinodegiri	Pride of Mobile
Pink Pearl	Southern Charm
Snow	

Kaempferi (hardy Japanese).

	100	1000
Prices on above Azaleas	$10.00	$90.00

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Christmas Cheer	Hexe
Coral Bells	Hinodegiri
Snow	

	100	1000
Prices on 2-yr. Azaleas	$15.00	$125.00

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COLDFRAME-GROWN
IN PEAT MOSS ONE YEAR.
Sturdy plants, well branched, with excellent root systems, $15.00 per 100, $125.00 per 1000.
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Cash with order, no packing charges.
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3-yr., field-grown.	
6 to 8 ins.	$0.60
8 to 10 ins.	1.00
10 to 12 ins.	1.25
12 to 15 ins.	1.50
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New Durham Everbearing red Raspberry, bears mid-August to mid-October; up to 3/16-in., $55.00 per 1000; 3/16 to ¼-in., $65.00 per 1000; ¼-in. up, $75.00 per 1000. Special prices on lots of 5000 or over.
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Freshly dug, double inspected, moss packed.
$8.50 per 1000, $24.00 per 3000.
Can make immediate shipment any quantity.
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Auratum, 7 to 9 ins.	25.00	....
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Super fine mixed, jumbo	2.50	20.00
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Mexican, single; 4 to 6 ins.	6.00	50.00
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Double-flowering Camellia-type, 8 colors.
1¼ to 1½-in. $ 5.50 per 100, $45.00 per 1000
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1¼ to 1½-in. $ 7.50 per 100, $60.00 per 1000
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2-in. up 15.00 per 100, 140.00 per 1000
Minimum order $5.00.
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Over 50 of the finest commercial varieties, fully upgraded.

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We would like to have you try our bulbs. These mixtures contain many good colors.

Per 1000 bulbs	Nos. 1	2
Giant Exhibition Mixture	$25	$20
All Light Color Mixture	25	20
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Fancy Blended Mixture	30	24

Daily express shipments.
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Beautifully color-illustrated boxes, each containing 4 different giant-flowering Dahlias, $10.00 per carton of 20 boxes.
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WRITE NOW.
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Field divisions.
Our divisions are selected from the most vigorous plants grown in the fields. These divisions are well-rooted and have been hand-trimmed, ready to plant in the fields. In shipment the roots of the plants are protected with sphagnum moss and the tops with excelsior. Each variety is carefully labeled.

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Admiral, deep rose-red
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Huntsman, large scarlet
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Mogul, wine-rose
Peggy Ann Hoover, Spider, pink
Remembrance, very dark red
Tampico, bronze
LOW GROWING, CUSHION
Allegro, salmon-pink
Autumn Lights, brilliant orange
Black Velvet, very dark red
Butterball, butter-yellow
Champion Cushion, orange-red
Dahliamum, red
Gladness, lavender Pompon
Little Eskimo, white Pompon
Pygmy Gold, yellow Button
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For additional varieties, send for price list.
W. S. YOE NURSERIES
Lake St. Madison, O.

HARDY CHRYSANTHEMUMS
These are field-rooted divisions and will give utmost satisfaction for potting for spring resale or lining out.

CUSHION TYPES	Per 100
Bronze Cushion	$4.00
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White Cushion	4.00
Golden Carpet, new bright yellow	5.00
Major Cushion, bright pink	5.00
Champion Cushion, apricot-red	5.00
TALLER, CUT-FLOWER TYPES	
Autumn Lights, new bronze; early	4.00
Algonquin, double bright yellow	4.00
Burgundy, wine-red; large	5.00
Red Beauty, dark red; Decorative	5.00
Bonfire, new red; early	4.00
Clara Curtis, early pink Korean	4.00
Chas. Nye, large early yellow	5.00
Chiquita, deep yellow Pom	5.00
Dahliamum, new red; early	4.00
Deanna, rose-pink	4.00
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Huntsman, new scarlet-orange	5.00
Irene, white Pom	4.00
Early Bronze, bronze Pom	4.00
Little Bob, bronze Button	4.00
Orchid Helen, new pink	4.00
Pygmy Gold, yellow Pom.; early	4.00
Olive Longland, apricot-salmon	5.00
Ruby Pompon, dark red; early	5.00
Sunape, yellow Pom	5.00

Order not less than 25 of a variety.
Minimum order, $4.00.
ELKHART NURSERY CO.
1650 Toledo Rd. Elkhart 3, Ind.

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FIELD CLUMPS. Send for list of new 1954 and 1955 introductions and other favorites.
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FLORETUM COLORFUL GARDEN MUMS
Our top-grade varieties, bred for early blooming, frost tolerance, winter hardiness.
Pinched, ROOTED CUTTINGS, branched
Each variety labeled, true to name.
Hardened outside, ready for field planting.

5 each,	20 varieties, 100 plants	$ 10.00
5 each,	50 varieties, 250 plants	25.00
5 each,	100 varieties, 500 plants	50.00
5 each,	150 varieties, 750 plants	75.00
10 each,	20 varieties, 200 plants	14.00
10 each,	50 varieties, 500 plants	35.00
10 each,	100 varieties, 1000 plants	70.00
10 each,	150 varieties, 1500 plants	100.00
25 each,	20 varieties, 500 plants	30.00
25 each,	50 varieties, 1250 plants	75.00
25 each,	100 varieties, 2500 plants	135.00

FIELD PLANTING TIME, May, June in most sections; to mid-July in central and south.
PRAIRIE SOUTHWEST FLORETUM
Fall River, Kan.

HARDY CHRYSANTHEMUMS
Send for our 1956 catalog.
Cultural notes on cut flowers and pot plants.
C. C. BREECE, R. 2, Delaware, O.

COTONEASTERS

COTONEASTER PRAECOX
This is one of the hardiest Cotoneasters which went through 20 degrees below zero without any harm. It has large berries like cranberries which color up in the middle of August and remain on until very late fall. It grows rather flat and makes an ideal plant to combine with foundation plantings, especially with ranch-type houses. We can offer the following for 1956, 3-yr. transplants; 15 to 18 ins., $85.00 per 100, $750.00 per 1000; strong 2-yr. seedlings, $30.00 per 100, $250.00 per 1000.

C. HOOGENDOORN
Turner Rd. Newport, R. I.

DELPHINIUMS

DELPHINIUM
PACIFIC GIANT HYBRIDS
Black Knight, dark blue
Blue Bird, medium blue
Cameliard, pure lavender
Galahad, glistening white
Pastel Shades, mixed
Plants in PEAT POTS, ready for planting or counter sales, upon arrival.
64 plants per carton, $9.60.

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Urbana, O.

PACIFIC HYBRID DELPHINIUMS
Galahad, white; Blue Bird, dark blue; Summer Skies, light blue; King Arthur, purple, and mixed colors, $11.00 per 100, $100.00 per 1000. Pink Astolat, $12.50 per 100. All from 2-in. pots. Excellent coldhouse stock. Ship now or later.
RUSSELL BREECE, R. 3, Delaware, O.

EVERGREENS

ROOTED CUTTINGS AND LINERS

	Each, 100	1000
Arborvitae, globe	$0.09	$0.08
Arborvitae, green Niagara, 4 to 8 ins.	.09	.08
Arborvitae, pyramidal, 4 to 8 ins.	.09	.08
Juniper, Hetz, 4 to 8 ins.	.11	.10
Juniper, Pfitzer, 4 to 8 ins.	.11	.10
Taxus andersoni, 6 to 8 ins.	.10	.09
Taxus browni	.10	.09
Taxus capitata (leaders), 4 to 8 ins.	.14	.12
Taxus cuspidata, 6 to 8 ins.	.09	.08
Taxus hicksi, 6 to 8 ins.	.09	.08
1-YR. TRANSPLANTS		
Taxus cuspidata, 6 to 8 ins.	.15	.14
Taxus capitata, 6 to 10 ins.	.24	.22
Taxus hicksi, 6 to 10 ins.	.15	.14
2-YR. TRANSPLANTS		
Arborvitae, green Niagara 8 to 12 ins.	.25	.22
Taxus hicksi, 6 to 10 ins.	.22	.20

GRAFTED SPRUCE, 2½-IN. POTS
Koster Blue Spruce, each, $1.25.
GRAFTED JUNIPER, 2¼-IN. POTS

	Each, 10	100
Juniperus burkl	$0.60	$0.55
Juniperus canaerti	.60	.55

50 of a variety at 100 rate.
300 of a variety at 1000 rate.
BOXING AT COST.
DRAKE'S NURSERIES
G-4342 Branch Rd. Flint, Mich.

HEAVY ROOTED CUTTINGS

	Per 100	Per 1000
Arborvitae, dark green American, 6 to 10 ins.	$ 9.00	$80.00
Arborvitae, globe, 4 to 8 ins.	9.00	80.00
Arborvitae, wareana, 6 to 10 ins.	10.00	90.00
Juniperus hetzi glauca, 6 to 10 ins.	9.00	80.00
Juniper, Savin, 6 to 10 ins.	9.00	80.00
Juniper, Von Ehron, 6 to 10 ins.	9.00	80.00
Juniper, Andorra, 6 to 10 ins.	9.00	80.00
Juniper, Pfitzer, 6 to 8 ins.	9.00	80.00
Taxus cuspidata, 6 to 10 ins.	10.00	90.00
Taxus hicksi, 6 to 10 ins.	10.00	90.00

Spring delivery. Cash with order earns free packing.
DE WINTER'S NURSERY
653 Port Sheldon Rd.
Grandville, Mich.

EVERGREEN LINERS AND CUTTINGS
POT-GROWN AND TRANSPLANTS

Pot-grown stock	Each, 100	1000
Arborvitae, American, dark green, 1-yr., 6 to 7 ins.	$0.22	$0.20
Arborvitae, globe woodwardi, 5 to 6 ins.	.22	.20
Arborvitae, pyramidalis, 1-yr., 5 to 6 ins.	.22	.20
Arborvitae, pyramidalis, 2-yr., 6 to 9 ins.	.27	.25
Juniperus pfitzeriana armstrongi, 1-yr., 4 to 5 ins.	.24	.22
Juniperus chinensis pfitzeriana, 1-yr. pots, 6 to 7 ins.	.22	.20
Juniperus chinensis pfitzeriana, 2-yr. pots, 6 to 9 ins.	.29	.27
Juniperus glauca hetzi, 1-yr., 6 to 7 ins.	.22	.20
Juniperus glauca hetzi, 2-yr., 6 to 9 ins.	.27	.25
Taxus intermedia, 2-yr., 6 to 9 ins.	.24	.22
Taxus cuspidata, 2-yr., 6 to 9 ins.	.24	.22
Taxus media, spreading, 2-yr., 6 to 9 ins.	.24	.22
Euonymus alatus compactus, 2-yr., 6 to 7 ins.	.18	.16
Korean Boxwood, 1-yr., 3 ins.	.20	.18
Viburnum, leather-leaved; 2-yr. pots, 6 to 9 ins.	.37	.35
Viburnum burkwoodi, 1-yr., 4 to 5 ins.	.22	.20

HEAVY ROOTED CUTTINGS
From flats, growing outside in lath house. Ready for delivery now.

Boxwood, Korean, hardy, 3 ins.	$0.09	$0.08
Euonymus alatus compactus, 3 to 4 ins., 2-yr., branched	.09	.08
Euonymus erectus, 3 to 4 ins.	.07	.06
Juniperus glauca hetzi, 5 ins.	.11	.10
Juniperus chinensis pfitzeriana, 6 to 7 ins.	.12	.10
Arborvitae, pyramidalis, 5 to 6 ins.	.11	.10
Arborvitae, globe, 4 to 6 ins.	.11	.10
Arborvitae, American, dark green; 5 to 6 ins.	.11	.10
Taxus hicksi, 5 ins.	.11	.10
Taxus intermedia, 3 to 4 ins.	.11	.10
Taxus cuspidata, 5 ins.	.11	.10
Taxus andersoni, 4 to 5 ins.	.11	.10
Taxus media, 3 to 4 ins.	.11	.10
Taxus hatfieldi, 3 to 4 ins.	.11	.10
Taxus browni, 3 to 4 ins.	.11	.10

Terms: 2 per cent discount. PACKING AND BOXING FREE for cash with order. Our stock guaranteed 100 per cent satisfactory or return within 6 days for full refund, plus full shipping charges paid.
250 plants at 1000 rate.
MIAMI NURSERY CO.
Tipp City, O.

EVERGREENS
ROOT-PRUNED AND TRANSPLANTED.
25 at 100 rate; 250 at 1000 rate.
TERMS: As per our published list which includes satisfactory credit or cash with order. NO C.O.D.
YOU WILL LIKE OUR PLANTS.

	Each, 10	100	1000
JUNIPERUS ANDORRA PLUMOSA (Andorra Juniper)			
12 to 15 ins., TTT.	$0.75	$0.70	$0.65
9 to 12 ins., TTT.	.60	.55	.50
JUNIPERUS KOSTERI (Koster Juniper)			
12 to 15 ins., TTT.	.80	.75	.70
JUNIPERUS PFITZERIANA (Pfitzer Juniper) We are offering some of the finest Pfitzers we have ever produced.			
12 to 15 ins., TTT.	.85	.80	.75
9 to 12 ins., TTT.	.65	.60	.55
6 to 9 ins., TT.	.45	.40	.35
JUNIPERUS SABINA (Savin Juniper)			
12 to 15 ins., TTT.	.85	.80	.75
9 to 12 ins., TTT.	.65	.60	.55
6 to 9 ins., TT.	.45	.40	.35
JUNIPERUS VIRGINIANA (Eastern Red Cedar)			
2 to 3 ft., R.P.	.55	.50	.45
6 to 9 ins., R.P.	.10	.08	.06
9 to 12 ins., R.P.	.15	.13	.10
12 to 18 ins., R.P.	.20	.18	.15
18 to 24 ins., R.P.	.45	.40	.35
2 to 3 ft., TTT.	.95	.85	.75
18 to 24 ins., TTT.	.60	.55	.50
PICEA CANADENSIS ALBA (White Spruce)			
6 to 9 ins., R.P.	.10	.08	.06
9 to 12 ins., R.P.	.13	.10	.08
PICEA EXCELSA (Norway Spruce)			
12 to 15 ins., R.P.	.20	.18	.15
9 to 12 ins., R.P.	.12	.10	.08
6 to 9 ins., R.P.	.09	.07	.05
9 to 12 ins., TTT.	.30	.25	.20
PINUS BANKSIANA (Jack Pine)			
18 to 24 ins., R.P.	.30	.25	.20
PINUS NIGRA (Austrian Pine)			
12 to 18 ins., R.P.	.30	.25	.20
9 to 12 ins., R.P.	.12	.10	.08
6 to 9 ins., R.P.	.09	.07	.05
PINUS PONDEROSA (Bull Pine or Western Yellow Pine)			
12 to 18 ins., R.P.	.30	.25	.20
9 to 12 ins., R.P.	.12	.10	.08
6 to 9 ins., R.P.	.09	.07	.05
PINUS SYLVESTRIS (Scotch Pine)			
12 to 18 ins., R.P.	.20	.17	.15
9 to 12 ins., R.P.	.10	.08	.07
6 to 9 ins., R.P.	.08	.06	.05
THUJA ORIENTALIS			
12 to 18 ins., R.P.	.20	.18	.15
9 to 12 ins., R.P.	.12	.10	.08

PLUMFIELD NURSERIES, INC.
Fremont, Neb.

XUM

EVERGREENS—*Continued*

ROOTED CUTTINGS	100	1000
Juniper, Pfitzer	$12.00	$100.00
Andorra	12.00	100.00
Taxus hicksi	10.00	90.00
Spreading	10.00	90.00
capitata	14.00	....
browni	10.00	....
3-YR. TRANSPLANTED		100
Juniper, Pfitzer, 12 to 15 ins.		$45.00
Hetz, 10 to 15 ins.		45.00
Andorra, 10 ins.		25.00

RHODODENDRONS FROM

RED HYBRID SEED	100	1000
Banded, 1½x1½x2 ins.	$15.00	$130.00
Azalea mollis, banded	12.00	100.00
hinodegiri	12.00	100.00
amoena	12.00	100.00
Sherwood Red	12.00	100.00

CHARLES J. SANDERS
Monongahela-Bentleyville Rd.,
Monongahela, Pa.

QUALITY LINERS

	Per 100
Douglas Fir, 4 to 8 ins., tr.	$15.00
Colorado Blue Spruce, 4 to 8 ins., tr.	15.00
Balsam Fir, 4 to 6 ins., tr.	15.00
Blue Atlas Cedar, 6 to 12 ins., sdg.	15.00
Mugho (dwarf) Pine, 3 to 5 ins., tr.	17.50
Canadian Hemlock, 4 to 8 ins., tr.	20.00
Enkianthus camp., 8 to 12 ins., tr.	25.00
American Holly, 8 to 12 ins., tr.	27.50
Taxus, best ass't var., 6 to 8 ins., tr.	25.00
Fr. hybrid Lilacs, 6 to 12 ins., grafts	27.50
Ilex crenata, 8 to 12 ins., tr.	32.50
Rho. hybrids, Fr. red seed, 4 to 10 ins.	45.00
Pink fig. Dogwood, 10 to 15 ins., grafts	75.00
Magnolias, pink and red, 8 to 15 ins., tr.	75.00
Red Japanese Maple, 1-yr. grafts	85.00

Send for new spring list.
POSSUM HOLLOW NURSERIES
6909 Henley St., Philadelphia 19, Pa.

EVERGREEN LINERS

	Each, 100	1000
PFITZER JUNIPER		
2½-in. pots, 1-yr.	$0.18	$0.15
2½-in. pots, 1-yr. (heavy)	.22½	.18½
Rooted cuttings	.12	.10
BLUE PFITZER JUNIPER		
2½-in. pots, 1-yr.	.25	.20
Rooted cuttings	.13	.12
ARMSTRONG PFITZER JUNIPER		
2-in. pots, 1-yr.	.22½	.18½
Rooted cuttings	.12	.11
TAXUS COLUMNARIS		
2½-in. pots, 1-yr.	.20	.15

TERMS: Cash with order, free packing.
300 plants of one variety at 1000 rate.
Not less than 50 of a variety.
VOGE NURSERY
New Lebanon, O.

EVERGREEN SEEDLINGS

	Per 100	Per 1000
Concolor Fir, 2-0, 3 to 6 ins.	$ 8.75	$50.00
Colorado Blue Spruce, 2-0, 4 to 8 ins.	6.00	35.00
Scotch Pine (Cert. Austrian Alps), 2-0, 4 to 8 ins.	5.50	30.00
Scotch Pine (Cert. Scotch Highlands), 2-0, 3 to 6 ins.	5.50	30.00
Norway Spruce, 4-0, 8 to 16 ins.	10.75	....
Scopulorum, 2-0, 6 to 10 ins.	12.75	....

500 at the 1000 rate.
NEUNER'S EVERGREEN NURSERY
368 Eicher Rd. Pittsburgh 2, Pa.

CANADA HEMLOCK
Collected seedlings

	Per 100	Per 1000
6 to 9-in. seedlings	$4.00	$ 20.00
9 to 12-in. seedlings	6.00	45.00
12 to 18-in. seedlings	8.00	65.00

These are first-quality, bushy Hemlocks, carefully dug and packed in sphagnum moss in ventilated boxes.
Send for complete list of lining-out stock.
ISAAC LANGLEY WILLIAMS
Box AN Exeter, N.H.

PIERIS JAPONICA
(Andromeda)
Order now for spring, 1956, delivery.
These sturdy, healthy plants are starting their second year.

	Per 100	Per 1000
1-yr. flats, T.	$10.00	$90.00
1-yr. seedlings	8.00	75.00

ECKHART NURSERIES
16 Toppa Blvd. Newport, R. I.

TAXUS CAPITATA

2-yr. seedlings from Japanese seed, packed to reach you in perfect condition.
2 to 4 ins., $6.00 per 100, $50.00 per 1000.
4 to 7 ins., $12.00 per 100, $100.00 per 1000.
Sample sent on request.

NORTHRUPS' NURSERY
R. D. 1 Conneaut, O.

EVERGREEN SEEDLINGS
POSTPAID. Spring 1956 only.
2 to 4-in., $4.00 per 100, $25.00 per 1000.
Alpine Fir, Blue Douglas Fir, Austrian Pine, Jack Pine, Red Pine, Scotch Pine, Ponderosa Pine, Black Hills Spruce, Colorado Blue Spruce, Engelman Spruce, Norway Spruce.
Cash, please.
C. WILSON'S NURSERY, PEMBINE, WIS.

10 KOSTER'S BLUE SPRUCE
Specimens, 8 to 10 ft., real beauties.
PAUL J. SCHUMAKER
Box 117 Perry, O.

WELL ROOTED LINERS.
OPEN BED-GROWN.
Juniper, Pfitzer, 8 to 10 ins. 15c
Juniper, Pfitzer, 6 to 8 ins. 10c
Terms: Cash with order.

POPLAR BLUFF NURSERY
Rt. 5, Box 209-A Poplar Bluff, Mo.

TAXUS CAPITATA
Strong 2-yr. seedlings, seeds sown lightly, plants grown with plenty of room in beds, $15.00 per 100, $125.00 per 1000.
C. HOOGENDOORN NURSERIES
Newport, R. I.

PIERIS JAPONICA (ANDROMEDA)

	Per 100	Per 1000
1-yr., T, 2 to 3 ins.	$8.00	$75.00
Seedlings, 1 to 2 ins.	6.00	50.00

PLANE VIEW NURSERY
West Rd. Newport, R. I.

PIERIS JAPONICA
Out of 2-in. pots, $17.50 per 100, $150.00 per 1000. F.O.B. Elizabeth, N. J.
DELAWARE VALLEY NURSERY
948 N. Broad St. Elizabeth, N. J.

FRUIT AND NUT TREES

FRUIT TREES
APRICOTS, hardy: Moorpark, 4 to 5 ft., branched, 45c.
PLUMS, Methley, Gold, Damson, Hanska, Burbank, Bruce, Stanley Prune, 4 to 6 ft., branched, 45c.
PEACHES, Red Elberta, Giant Hale, Red Bird, Hale-Haven, Early Elberta, South Haven, Fair Beauty, Redhaven, Elberta, Jubilee, 4 to 5 ft., 35c.
BENTON COUNTY NURSERY CO., INC.
Rogers, Ark.

GARDENIAS

GARDENIA MYSTERY
Well-rooted, sturdy plants. Bench-grown in sterilized soil and pots. Out of 2½-in. pots, $17.50 per 100, $150.00 per 1000. F.O.B. Chino, Calif. Packed 65 to a carton. No packing charge for cash with order.
DESCANSO DISTRIBUTOR, INC.
12492 Pipeline Ave. Chino, Calif.

GRAPEVINES

GRAPE CUTTINGS
Concord and Fredonia, cut from clean, healthy vineyard, largest in Oklahoma, by experienced workmen. Tied with wire, 100 to bunch, $5.00 per 1000. F.O.B. here.
IDEAL FRUIT FARM, STILWELL, OKLA.

GROUND COVERS

VINCA MINOR (MYRTLE)	100	1000
field-grown clumps, exc. roots	$6.50	$ 60.00
Euonymus radicans col., 1-yr.	15.00	135.00
radicans coloratus, 3-yr.	25.00	225.00
kewensis, 1-yr.	15.00	135.00
kewensis, 2-yr.	22.50	.....
patens, 1-yr.	15.00	135.00
patens, 2-yr., large	25.00	.....
Ajuga genevensis, large clumps	12.50	110.00
Pachysandras, 1-yr. transplants	5.50	50.00

F.O.B. Gt. Meadows. Cash, 2% discount.
MOHLE MEADOWLAND NURSERY
Great Meadows, N. J.

VINCA MINOR
(Periwinkle, Hardy Myrtle.)
Finest ground cover; fresh dug, individually clumped, $50.00 per 1000.
Hall's Honeysuckle (Japonica halliana), $45.00 per 1000; 2000 or more, $40.00 per 1000.
Pachysandra terminalis, 1-year, $55.00 per 1000; 2000 or more, $50.00 per 1000.
Ivy prices on request.
H. C. WAUGH
Rt. 1 Gallipolis, O.

THORNDALE SUB-ZERO EVERGREEN IVIES
Special strain, stands 20 degrees below zero. This English Ivy stays green all year round. Strong plants from 2½-in. rose pots or 2-in. plant bands, $25.00 per 100, lots of 250 or more; $30.00 per 100, in lots of 50 or less than 250. F.O.B. Woodstock.
THORNDALE NURSERY
Dean St. at 176 Woodstock, Ill.

ATTENTION, LANDSCAPERS!
AN EXCELLENT GROUND COVER

Euonymus f. coloratus	100	1000
1-yr., field-grown	$15.00	$125.00

Terms: Cash with order, 2 per cent discount and free packing. All others, 30 days net with suitable reference. 300 at 1000 rate.

MENTOR ROSE GROWERS, INC.
Little Mt. Rd. Mentor, O.

PACHYSANDRA TERMINALIS
Strong rooted cuttings, $4.00 per 100, $37.50 per 1000; $35.00 per 1000 for any order of 5000 or more. Prompt shipment now through November.
DUNWOODIE NURSERIES
6 Smart Ave. Yonkers, N. Y.

PACHYSANDRA TERMINALIS
Strong 1-yr., field-grown, $65.00 per 1000.
HILLCREST GREENHOUSES, Franklin, Pa.

HARDY PLANTS

SNYDER'S
PERENNIAL SPECIALTIES
Please refer to May 1 issue.

EUONYMUS VEGETUS
(Evergreen Bittersweet)
2 years in beds, 2 summers in field rows. No scale ever, in stock or cuttings.
Sturdy, well-branched, 10 to 12 ins. ... 35c each
6 to 8 ins., grown as above ..... 20c each
Strong rooted cuttings, from frames, 7c each

PHLOX SUBULATA
Lining-out stock, varieties described in May 1 issue.
Open bed-grown stock started last summer or field divisions with roots. All will bloom this spring and make clumps by fall.
Admiration, fine-textured but durable deep green foliage, pink with appleblossom effect. Bed-grown $5.00
Astro, divisions 4.00
Crimson, deep green foliage, lighter red than Atropurpurea and a far better grower. Bed-grown 5.00
Alexander's Elaire, bed-grown 8.00
Alexander's Favorite, pure rose, deeper eye. Vigorous. Bed-grown 5.00
Alexander's Pink Perfection, divisions ... 4.00
Alexander's Surprise, bed-grown 8.00
Alexander's White Cushion, divisions ... 4.00
Alexander's White Delight, bed-grown ... 6.00
Alexander's Wild Rose, bed-grown 8.00
Emerald Cushion Blue, best in its class. Bed-grown 6.00

See our Hardy Plant ad of over a column of items in May 1 issue.
E. J. SNYDER, WEST MILTON, O.

PACIFIC GIANT DELPHINIUM
HARDY PERENNIALS AND PANSIES
1-year field stock, $8.00 per 100; strong transplanted coldframe stock, $4.00 per 100. Galahad, pure white; King Arthur, royal purple; Summer Skies, light blue; Black Knight, darkest blue; Guinevere, lavender-pink; Blue Bird, mid-blue, white bee; Blue Jay, mid-blue, dark bee; Round Table Series, a balanced mixture; add $2.00 for Astor, flat, pink. Grenadin Carnations, 5 colors; Canterbury Bells, 4 colors; Korean Hybrid Chrysanthemums, very hardy, in mixed colors only; Coreopsis, Double New Gold; Pyrethrum, Pink Shades; Double Hardy Pinks, mixed colors; Diener's Double or G. Marconi Double Shasta Daisies; Sweet William, Single and Double dwarf "Midget," Dwarf Dark Crimson and medium tall Scarlet Beauty. Super Swiss Giant Pansy plants in bud and bloom, in coldframe stock only.
ON EXPRESS SHIPMENTS DIRECT FROM SAN DIEGO, WE PAY ½ THE TRANSPORTATION CHARGES, or WE SHIP BY PREPAID AIRFLIGHT TO CHICAGO or WASHINGTON, D. C., AND YOU PAY THE EXPRESS FROM THE AIRPORT TO YOUR LOCATION. MINIMUM TOTAL ORDER $12.00. NOT LESS THAN 25 EACH OF ANY KIND OR COLOR. PACKING FREE. CASH, PLEASE.
ELGIN PLANT CO., P. O. Box 496, Elgin, Ill.

HARDY PERENNIALS	Per 100
Pampas-Grass, Plume-Grass, field clumps	$12.00
White Creeping Phlox, field clumps	10.00
Daisy Shasta Supreme, field clumps	8.00
Artemisia Silver King, field clumps	12.00
Aster Beechwood Challenger, runners	5.00
Aster Countess of Dudley, runners	5.00
Aster Perry's Favorite, runners	5.00
Aster Lady Maddocks, runners	5.00
Aster Victor, runners	5.00
Aster Lavendula, runners	5.00
Aster Mt. Everest, runners	5.00

Order not less than 25 of a variety.
Minimum order, $4.00.
ELKHART NURSERY CO.
1650 Toledo Rd. Elkhart 3, Ind.

HEMEROCALLIS.
We are among the largest growers of Hemerocallis. 180 dependable varieties; 14 varieties Liriopes, the great border and ground cover plant; hardy Giant Hibiscus, also other items. High-quality stock at reasonable prices. Send for our wholesale list.
RIEGEL PLANT CO., EXPERIMENT, GA.

5000 GENUINE RUSSEL LUPINES
Extra large yearling field plants.
Northern-grown on sandy soil with irrigation. Ready for shipping now and later.
$10.00 per 100; 500, $45.00; 1000, $80.00.
Cash with order or C.O.D.
SCHULTZ PERENNIAL GARDENS
Box 234 Mercer, Wis.

HELLEBORUS NIGER
(Christmas Rose)
Our own grown.
3-yr. transplants
$50.00 per 100.
$450.00 per 1000.
C. HOOGENDOORN
Turner Rd. Newport, R. I.

WELLER'S BETTER PERENNIALS
WELLER NURSERIES CO., Holland, Mich.
Write for trade list.

GYPSOPHILA BRISTOL FAIRY
Strong 2¼-in. pot plants, grafted.
Per doz. Per 100 Per 1000
$3.50 $22.00 $200.00
25 at 100 rate; 250 at 1000 rate.
BLUE ACRE GARDENS
R. R. 3, Box 292-A Piqua, O.

HARDY PLANTS
We still have a good selection of healthy, field-grown perennial plants for spring shipment. If you are willing to pay $10.00 per 100 for nice plants, then write for our new list.
WALTERS GARDENS
Route 2 Zeeland, Mich.

SALVIAS, HUSKY SEEDLINGS, extra nice Bonfire, $10.00 per 1000; America, $12.00 per 1000; St. John's Fire, $15.00 per 1000. Packed so you need not transplant for a week or more after arrival. Shipping now.
HOLUB GREENHOUSES, Oskaloosa, Iowa

ASTER FRIKARTI Per 100
Strong rooted cuttings $12.00
LYTHRUM MORDENS PINK
Strong rooted cuttings 6.00
PLANE VIEW NURSERY
Newport, R. I.

America's Best Source
for Hardy Plants is
THE WAYSIDE GARDENS
Mentor, Ohio
Write for Trade List.

HARDY FERNS
Clump, $8.00 per 100, $75.00 per 1000.
SEMPERVIVUMS (HEN-AND-CHICKS)
$4.00 per 100, $35.00 per 1000.
THE PEQUOT NURSERIES, Brainerd, Minn.

TEUCRIUM CHAMAEDRYS 100 1000
Medium size $12.00 $100.00
Well rooted cuttings 5.00 45.00
BEARDSLEE NURSERY, PERRY, O.

Pansies, perennials and rock plants in wide variety. Send for catalog.
PITZONKA'S PANSY FARM & NURSERY
Bristol, Pa.

HEDGES

HEDGE
Ligustrum sinensis (Chinese hardy Evergreen Privet), Ligustrum ovalifolium (California Privet).
Per 100 Per 1000
1½ to 2 ft., 3 canes $11.00 $100.00
2 to 3 ft., 4 canes 15.00 135.00
3 to 4 ft., 5 canes 22.50 200.00
WAYNESBORO NURSERIES
Waynesboro, Va.

HOLLY

ILEX OPACA FEMINA
Heavy 1-yr. liners, potted spring 1955, from selected, heavy berried specimens. 4 to 8-in. plants, from 2½-in. pots or deep soil cans, $30.00 per 100.
A few male plants at the same price.
WARREN & SON NURSERY
Rt. 11, Box 512
Oklahoma City, Okla.

ILEX C. HELLERI
The best dwarf Holly.
2 to 4-in., 1-yr., in 2½ and 4-in. pots. Must clear beds this spring. 17½c per 1000.
Will sell complete lot (approx. 2500) for 15c each, this month only.
BUCHANAN'S NURSERY
Western Blvd. Raleigh, N. C.
Phone 9914

ILEX OPACA
Clark, Manig, Mae, Farage, Osa, Arden, 2¼-in. pots, 4 to 6 ins., $45.00 per 100. Hookstraw (old heavy berry), 2¼-in. pots, 4 to 6 ins., $65.00 per 100.
SPLIT ROCK NURSERIES
218 Farview Ave. Paramus, N. J.

Surplus Stock
can be easily and quickly turned into Cash
by listing it in the
American Nurseryman Classified Ads.

HONEYSUCKLES

HONEYSUCKLES
Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in. field plants, 3, 4 to 6 leads, $40.00 per 1000; lighter grade, $30.00 per 1000; sample 100, $4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone: 500W5.
ROBINSON NURSERY CO., Greenville, Ga.

IVIES

THORNDALE SUB-ZERO EVERGREEN IVIES
Special strain, stands 20 degrees below zero. This English Ivy stays green all year round. Strong plants from 2½-in. rose pots or 2-in. plant bands, $25.00 per 100, lots of 250 or more; $30.00 per 100, on lots of 50 or less than 250. F.O.B. Woodstock.
THORNDALE NURSERY
Highway 176 Woodstock, Ill.

ENGLISH IVY (HEDERA HELIX)
Our super quality, large-leaved strain. Approved landscape architects' standards. Grown in the sub-zero snow belt. Booking orders for fall shipment.
Per 100 Per 1000
2¼-in. pots (2 per pot) $12.50 $110.00
Free packing, cash with order.
BABCOCK GARDENS
R. 3 Jamestown, N. Y.

BALTIC IVY
Hardiest Ivy. Fine for wall or ground cover. True stock. Well-rooted plants. Delivery now or later. 25 per cent down to reserve. Rooted cuttings, $6.50 per 100, $60.00 per 1000. 2-in. pots, $12.00 per 100, $110.00 per 1000.
STRATFORD GARDENS
Russell Breece, R. 3 Delaware, O.

BOSTON IVY
2-yr., field-grown, with nice tops and roots. Medium, 16c each.
CONGDON'S WHOLESALE NURSERY
North Collins, N. Y.

Start Your Offer Now
in the American Nurseryman
And Watch Sales Climb.

LINING-OUT STOCK

BEDDED STOCK
1 year in the open.
Per 100 Per 1000
Ilex convexa $20.00 $180.00
Ilex rotundifolia 20.00 180.00
Sarcococca hookeriana ..... 25.00 .....
Taxus hicksi 17.50 150.00
Taxus hatfieldi 17.50 150.00
Taxus cuspidata 17.50 150.00
Taxus capitata, cutting-grown 25.00 225.00
SEEDLINGS AND TRANSPLANTS
Abies douglasi, 2-yr., S. 4.00 35.00
Cornus florida, 1-yr., S. 6.00 50.00
Cornus florida, 2-yr., S. 9.00 80.00
Euonymus alatus, 1-yr., S. ... 3.50 30.00
Euonymus alatus, 2-yr., S. ... 6.00 50.00
Euonymus alatus comp., 1-yr., S. 5.00 40.00
Euonymus alatus comp., 2-yr., S. 6.00 50.00
Ilex crenata, 2-yr., S. 7.00 60.00
Picea engelmanni, 3-yr., S. ... 5.00 40.00
Picea excelsa, 2-yr., S. 2.50 20.00
Picea excelsa, 3-yr., S. 3.50 30.00
Picea pungens, 2-yr., S. 3.50 30.00
Picea pungens, 3-yr., S. 4.50 40.00
Pinus austriaca, 2-yr., S. 7.00 60.00
Pinus densiflora, 2-yr., S. 6.00 50.00
Pinus mughus, Tyr., 2-yr., S. . 5.50 50.00
Pinus resinosa, 2-yr., S. 6.00 50.00
Pinus thunbergi, 2-yr., S. 5.50 50.00
Pinus strobus, 2-yr., S. 4.50 40.00
Pinus sylvestris, 2-yr., S. 3.00 25.00
Syringa vulgaris, 2-yr., S. 4.00 30.00
Taxus capitata, 1-yr., S. 5.00 40.00
transplants, 1-yr., S. 6.00 50.00
2-yr., S. 10.00 90.00
Tsuga canadensis, 2-yr., transplants, 4 to 6 ins. 9.00 80.00
3-yr., transplants, 6 to 9 ins. 16.00 150.00
Heavy liners, field-grown in nursery rows, bare-roots.
Per 100
Cornus florida rubra, 1-yr. buds $150.00
Cornus florida rubra Prosser, 1-yr. buds, 18 to 24 ins. 200.00
Buxus sempervirens, 6 to 9 ins. 35.00
Pinus thunbergi, 6 to 8 ins. 30.00
Pinus thunbergi, 8 to 10 ins. 50.00
Pinus austriaca, 6 to 8 ins. 20.00
Pinus austriaca, 8 to 10 ins. 30.00
Pinus austriaca, 10 to 15 ins. 40.00
Above stock has been transplanted several times, ready to pot in Cloversets for call trade. Special price on large amounts.
Pot-grown grafts, May shipment. Per 100
Acer polymorphum atropurpureum ... $75.00
Betula laciniata (Cutleaf Birch) 60.00
Carpinus betulus fastigiata 60.00
Cornus florida rubra 50.00
Cornus florida rubra Prosser 65.00
Cornus florida welchi var. 65.00
Hamamelis mollis 50.00
Fagus sylvatica riversi 60.00
Fagus sylvatica tricolor 75.00
Pinus cembroides 60.00
Retinospora obtusa gracilis 50.00
Tsuga canadensis pendula 60.00
Tsuga canadensis atrovirens 60.00
Viburnum carlesi 50.00
Virburnum juddi 50.00
Virburnum burkwoodi 50.00
Kwanzan Cherry, root grafts 20.00
Malus Almey, root grafts 20.00
Weeping Cherry, root grafts 20.00
Special prices on large quantities.
VERKADE'S NURSERIES, Wayne, N. J.

ROOTED CUTTINGS TO GROW ON.
25 at 100 rate Per 100
Biota decussata weaveri, dwf. blue ... $15.00
Biota globulosa weaveri, dwf. green .. 15.00
Juniperus excelsa stricta, Spiny Greek . 12.00
Juniperus ch., Pfitzer Juniper 10.00
Euonymus vegetus, hardy Evergreen .. 8.00
Cotoneaster acutifolia, Peking C. 10.00
Cotoneaster horizontalis, Rock Spray . 10.00
Salix purpurea nana, dwf. blue leaf .. 6.00
Spiraea Anthony Waterer, dwf. red ... 6.00
Lythrum new red Mordens Gleam 10.00
Santolinas, gray foliage border plant .. 3.00
Teucriums, dwf. Evergreen border plant 6.00
PRAIRIE SOUTHWEST FLORETUM
Fall River, Kan.

EVERGREENS
Blue Hetz Juniper, 6 to 8-in. bands, 2-yr. $0.14½
6 to 8-in., bare-root ..... .08
Andorra Juniper, 6 to 8-in. bands, 2-yr. .14½
Pfitzer Juniper, 6 to 8-in. bands ..... .14½
8 to 10-in. bands ..... .20
Von Ehron Juniper, 10 to 12-in. bands, 2-yr. ..... .14½
Spreading Jap. Yew, 2-yr., 6 to 8-in. bands ..... .20
DECIDUOUS, BARE-ROOT
Regels Privet, 8 to 10 ins. ..... .03½
BROADLEAFS, bare-root
Euonymus coloratus, 6 to 10 ins. ..... .03½
Variegated-leaved Honeysuckle vine, 5 to 6 ins. ..... .08
PERENNIALS
Carnation Crimson King ..... .05
All prices are at 1000 rate on orders totaling 300 or more. Less than 300, add 2c per plant.
McININCH GREENHOUSES
St. Joseph, Mo.

LINING-OUT STOCK
HEAVY POT PLANTS
Per 100 Per 1000
Biota, Baker, 2¼-in. pots $17.00 $150.00
Biota, bonita 2¼-in. pot 17.00 150.00
Biota, bonita upright, 2¼-in. pots 17.00 150.00
Biota, Bluecone, 2¼-in. pot .. 17.00 150.00
Juniper, Pfitzer, 2¼-in. pots .. 17.00 150.00
Juniperus hetzi glauca (extra heavy), 2¼-in. pots 20.00 175.00
HEAVY ROOTED CUTTINGS
Biota, Baker 10.00 80.00
Biota, bonita 10.00 80.00
Biota, bonita upright 10.00 80.00
Biota, Bluecone 10.00 80.00
Biota, Bluespire 10.00 80.00
THE ABOVE PLANTS READY FOR IMMEDIATE SHIPMENT.
WRITE OR CALL TERMINAL 4-2222.
BAKER BROS. NURSERY
P. O. Box 828
Fort Worth, Tex.

LINING-OUT STOCK
Spring 1956 Per 100
Buxus sempervirens, 1-yr., 2¼-in. pots. $17.50
Buxus koreana, 1-yr., 2-in. pots 20.00
Cotoneaster zabeli, 1-yr., 2-in. pots 17.50
Euonymus erectus, 1-yr., 2-in. pots 17.50
Pyracantha coccinea pauciflora, 2 ins. .. 22.50
Pyracantha Royleanea, 1-yr., 2-in. 22.50
Taxus cuspidata, 1-yr., 2-in. pots 17.50
2-yr., 2¼-in. pots 22.50
Taxus hicksi, 1-yr., 2-in. pots 17.50
2-yr., 2¼-in. pots 22.50
Immediate shipment. Cash with order.
FLORAL GARDENS, EATON, O.

LINING-OUT STOCK
Each, 100 1000
Ilex convexa, 6 to 8 ins. $0.30 $0.25
Ilex hetzi, 8 to 12 ins. ..... .40 .35
Ilex rotundifolia, 6 to 8 ins. ..... .30 .25
Ilex rotundifolia, 8 to 12 ins. ..... .40 .35
Grown 2 years in beds, planted 8 ins. apart. The larger size makes ideal plants for gallon cans and direct sales yard sales.
Pieris japonica, 6 to 9 ins. $0.30 $0.25
GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen

FINER LINERS OF ORNAMENTALS
To buy the best is not only good business—it's thrifty. FINER LINERS are best for many reasons. Send for your free copy of our current catalog of ornamental aristocrats, featuring Acer to Viburnum.
See our ad on pages 18 and 19 of May 15 issue.
JOHN VERMEULEN & SON, INC.
Dept. AN 11 Neshanic Station, N. J.

HEAVY LINERS, 3-IN. POTS
BOOK YOUR SUPPLY NOW.
ITALIAN CYPRESS $0.12
PFITZER JUNIPER ..... .17
Write, call or wire.
WOLFE NURSERY, INC.
Stephenville, Tex.

READY FOR IMMEDIATE SHIPMENT
Pyracantha Kasan, excellent for foundation planting; 3-in. pots, TT, 8 to 10 ins., branched, $32.50 per 100.
BABCOCK GARDENS
Route 3 Jamestown, N. Y.

Start Your Offer Now
in the American Nurseryman
And Watch Sales Climb.

PACHYSANDRAS

PACHYSANDRAS
Out of 2-in. pots, $12.00 per 100, $100.00 per 1000. F.O.B. Elizabeth, N. J.
DELAWARE VALLEY NURSERY
948 N. Broad St. Elizabeth, N. J.

PEONIES

TREE PEONIES
Fine named varieties in many shades of pink, purple, red and white. 1-yr. grafts, regularly $125.00 per 100, $1150.00 per 1000; 2-yr. grafts at double above prices. Deduct 1/3 on May orders. Send deposit of 1/3 of order. Delivery about December 1. Plant in fall or spring. Fine for growing in containers.
ATHA NURSERY, WEST LIBERTY, O.

PEONIES—*Continued*

CANNED PEONIES, READY TO GO. Each
Mme. de Verneville (white), gal. size...$0.70
Venus (tall pink), gal. size ..... .70
Mons. Jules Elie (med. pink), 2-gal. size .85
Felix Crousse (red), 2-gal. size 1.00
President Taft, gal. size ..... .70
President Taft, 2-gal. size ..... .85
LITTLEFORD NURSERIES
Vincennes, Ind.

PHLOX

PHLOX SUBULATA (CREEPING PHLOX)
Admiration, dainty pink with white eye
Alba, pure white flowers
Astro, deep orchid-rose
Blue Hills, attractive pale blue
Butterfly, lilac blush with purple eye
Crimson Beauty, showy cyclamen-red
Sensation, pure pink with red eye.

Transplants, from field rows, $9.00 per 100, $85.00 per 1000, prepaid.

Liners, $5.00 per 100, $45.00 per 1000, prepaid.

250 or more of a variety at 1000 rate.
Properly moss packed, labeled and shipped transportation prepaid by us. Cash, please.

TANGLEWOOD FARM
Box 336-N Clinton, S. C.

PHLOX SUBULATA (CREEPING)
1-year-old, undivided, field-grown clumps available for delivery when weather permits.

	Per 10	Per 100
Atropurpurea, showy wine-red	$1.60	$12.00
Alba, a good white	1.60	12.00
Blue Hills, sky-blue	1.60	12.00
Emerald Pink, very showy pure pink with rich, glossy evergreen foliage	1.60	12.00

Terms: Cash, or 25 per cent, balance C.O.D.
WALTERS GARDENS
Route 2 Zeeland, Mich.

PRIVET

VARIEGATED PRIVET, POTTED
2¼-in., 10c; 2½-in., 15c.
4-in. stock plants, 35c each.
BOCK, FLORIST
275 West Leffel Lane Springfield, O.

RHODODENDRONS

HYBRID RHODODENDRONS
For the past four years we have concentrated exclusively on the production of own-root hybrid Rhododendrons. We now offer in 3-in. bands or in flats, vigorous well-rooted stem cuttings.

America	$75.00 per 100
Catawbiense album	75.00 per 100
Caractacus	75.00 per 100
Giganteum	75.00 per 100
Roseum elegans	50.00 per 100

No shipping.
EAST NORTHPORT NURSERIES
415 Clay Pitts Rd.
East Northport, L. I., N. Y.
Phone Forest 8-7240

RHODODENDRONS
For immediate shipment. Unnamed hybrids of hardy ponticum, catawbiense parentage. Good foliage. With firm, lightweight ball, twice transplanted, bed-grown, 4 to 6 ins., 20c each; approx. 25 lbs. per crate. 50 plants per crate. Order by crate only. 500 or more of a size, 10 per cent discount. Lightweight, expert, frost-proofed crating free. Cash with order.
RICHARD P. RESSEL NURSERY
Mulino, Ore.

DWARF HYBRID RHODODENDRON
Introducing a new true dwarf hybrid Rhododendron (RHODODENDRON RAMAPO), the hardiest of all the dwarf varieties, bearing bright violet flowers in abundance. Strong transplanted rooted cuttings, $75.00 per 100. No shipping.
GREEN MEADOW NURSERY
Harriot Ave. Harrington Park, N. J.
Phone Closter 5-1022

RHODODENDRON HYBRIDS
1-year, field-grown grafted plants, imported from Holland in the spring. $75.00 per 100, $350.00 per 500, $650.00 per 1000 lot. List of varieties on demand.
PARMENTIER'S ROSES
Bayport, L. I., N. Y.

RHODODENDRON HYBRIDS
1-year, field-grown grafted plants, imported from Holland in the spring. $75.00 per 100, $350.00 per 500, $650.00 per 1000 lot. List of varieties on demand.
VERKADE'S NURSERIES, Wayne, N. J.

25,000 hybrid Rhododendrons, liners, cuttings; red, pink, white, yellow; year-round; rooted cuttings. Azaleas, flats, 1, 2, 3-yr., all varieties.
Kordus Nursery, Deer Park Ave., R. F. D. 4, Huntington, L. I., N. Y.

Rhododendron catawbiense grandiflorum, rooted cuttings with peat ball, $50.00 per 100, $450.00 per 1000.
Rudolph Kluis, R. 22, Box 164, Bound Brook, N. J.

ROSEBUSHES

ROSEBUSHES
Wholesale only.
I GIVE UP!
After several hours trying to write an ad with sales appeal, will simply say they are the best I have ever seen. Write for complete list and prices today.
NEW LONDON ROSES
Box 876 Overton, Tex.

FIELD-GROWN ROSEBUSHES
FINEST QUALITY
Hybrid Teas, Floribundas,
Polyanthas and Climbers.
Price and variety list on request.
WELLS BROS. NURSERY
Box 625 Lindale, Tex.

POTTED ROSES
For May and June planting.
List and prices sent upon request.
D & D COMPANY, ROSE SPECIALISTS
42 Monmouth Rd. Eatontown, N. J.

MENTOR-GROWN POTTED ROSES
Tuberous Begonias in bloom June 1.
Pick up only.
PINNEY NURSERY
State Route 84 Mentor, O.

SAINTPAULIAS

SAINTPAULIAS
(Double African Violets)

MIDNIGHT LADY
QUEEN CUSHION
DOUBLE NEPTUNE
Heavy 2¼-in., in bud and bloom,
$25.00 per 100.

R. H. MURPHEY'S SONS CO.
Urbana, O.

SHRUBS AND TREES

AZALEAS, FINE LINERS	Each
Mollis, 10 to 12 ins., B&B	$0.70
12 to 15 ins., B&B	.85
15 to 18 ins., B&B	1.30
	Per 100
Mollis, 4 to 6 ins.	$15.00
6 to 8 ins.	20.00
8 to 10 ins.	25.00
These are 2-yr. transplants, heavy sheared.	
Boudoir, 2-yr. transplants	$20.00
Cleopatra, 2-yr. transplants	20.00
Herbert, 2-yr. transplants	20.00
Hino-Crimson, 2-yr. transplants	20.00
Othello, 2-yr. transplants	20.00
1-yr. Syringas (French Lilacs), in 10 varieties	20.00
Buxus sempervirens, 2-yr. transplants, 5 to 8 ins.	10.00
Ilex convexa, 1-yr. transplants	10.00
Ilex latifolia, 1-yr. transplants	10.00
Berberis thunbergi, 2-yr. transplants	9.00
Euonymus alatus compactus, 1-yr. transplants	17.50
Taxus browni, 2-yr. transplants	30.00
baccata, 2-yr. transplants	30.00
cuspidata, 2-yr. transplants	25.00
cuspidata, 3-yr. transplants, 8 to 10 ins.	30.00
cuspidata, 3-yr. transp., 10 to 12 ins.	35.00

Cash with order earns free packing or ¼ with order, rest C.O.D.
LITTLE MOUNTAIN VIEW NURSERIES
Mentor, O.

For $3.50

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

AT 35c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the next issue to reach us by May 11.

Forms for June 15 issue will close Friday, May 25.

AMERICAN NURSERYMAN
343 S. Dearborn St. CHICAGO 4, ILL.

ROOT GRAFTS
KWANZAN AND WEEPING CHERRY, $20.00 per 100.
SYRINGAS (French Lilac), $15.00 per 100.
Charles X Pres. Grevy
Ludwig Spaeth Mme. Lemoine
POT GRAFTS
All understocks established 1 year in pots. Available after May 15.

	Per 100
Acer palmatum atrop. (Red Jap. Maple)	$65.00
Acer palmatum dissectum atropurpureum (Red Cutleaf Jap. Maple)	65.00
Acer platanoides (Fassens Black)	65.00
Cornus florida rubra (pink Dogwood)	50.00
Cornus florida rubra Prosser (red Dogwood)	65.00
Cornus florida pendula (Weeping white Dogwood)	50.00
Cornus florida plena (double-flowering white Dogwood)	50.00
Cornus florida welchi (variegated)	60.00
Fagus sylvatica asplenifolia (Fernleaf Beech)	65.00
Fagus sylvatica riversi (Purple Beech)	65.00
Fagus sylvatica pendula (Weeping Beech)	65.00
Fagus sylvatica fastigiata (upright)	65.00
Fagus sylvatica tricolor (purple, white, pink)	65.00
Picea pungens kosteri (Blue Spruce)	100.00
Pinus strobus nana (dwarf White Pine)	50.00
Pinus strobus pendula (Weeping White Pine)	50.00
Pinus strobus fastigiata (upright White Pine)	50.00
Pinus parviflora glauca	50.00
Pinus cembra (Swiss Stone Pine)	50.00
Pine, Tanyosho (Jap. Table Pine)	50.00
Viburnum juddi	50.00
Tsuga canadensis pendula (Weeping Hemlock)	50.00

POT-GROWN CUTTINGS, READY MAY 15

	Per 100	Per 1000
Andromeda japonica (Pieris)	$6.00	$50.00
Pyracantha lalandi (Firethorn)	7.00	65.00
Rhododendron wilsoni		35.00

ROOTED CUTTINGS, READY MAY

	Per 100	Per 1000
Azalea hinodegiri	$6.00	$50.00
Ilex convexa	7.00	65.00

TRANSPLANTS

Andromeda japonica, 2-yr., 8 to 10 ins., own-root	25.00	225.00
Azalea mucronulata, 2-yr. seedlings, 10 to 12 ins.	25.00	200.00

RUMMEL NURSERIES
Pompton Plains 1, N. J.

POTTED GRAFTS FOR SPRING

	Per 100
Acer palmatum atropurpureum	$ 65.00
Acer palmatum atropurpureum dissectum	65.00
Fagus sylvatica asplenifolia	65.00
Fagus sylvatica pendula	65.00
Fagus sylvatica riversi (Purple Beech)	65.00
Picea pungens moerheimi	100.00
Picea pungens kosteri	100.00
Pine, Tanyosho	50.00
Tsuga canadensis sargenti	50.00

ROOTED CUTTINGS.
BEDDED OUTSIDE 1 YEAR

	Per 100	Per 1000
Buxus sempervirens	$10.00	$ 90.00
Ilex crenata	10.00	90.00
Ilex rotundifolia	12.00	100.00
Juniper, hibernica	10.00	....
Pachysandras	4.00	35.00
Taxus cuspidata	10.00	90.00
Thuja vervaeneana	10.00	....

3-YEAR TRANSPLANTED SEEDLINGS

Thuja occidentalis	10.00	90.00
Picea pungens glauca	7.00	60.00
Picea (White Spruce)	6.00	50.00
Tsuga caroliniana	10.00	....

1-YEAR SEEDLINGS

Acer palmatum	4.00	35.00
Euonymus alatus compactus	5.00	40.00
Fagus sylvatica	7.00	65.00
Taxus capitata	5.00	40.00
Taxus capitata, transplants	6.00	50.00

2-YEAR SEEDLINGS

Douglas Fir	4.00	35.00
Ilex crenata	4.00	35.00
Taxus capitata	8.00	70.00
Taxus capitata, transplants	10.00	90.00
Thuja orientalis	3.50	30.00
Syringa vulgaris	3.50	30.00

3-YEAR SEEDLINGS

Picea excelsa	3.50	25.00
Picea pungens glauca	4.00	35.00
Picea rubens, transplants	6.00	50.00
Picea (White Spruce)	3.50	25.00
Pinus densiflora	5.00	40.00
Pinus sylvestris	3.50	25.00

VAN DINE NURSERY
Berdan Ave. Preakness, Paterson, N. J.

POTTED GRAFTS	100
Cornus florida rubra	$50.00
Acer atropurpureum dissectum	65.00
Acer Faassens Black	60.00
Ilex opaca (named), 3-in. pots, cuttings	50.00
ROOTED CUTTINGS	1000
Retinospora plumosa lutescens	$ 65.00
Juniperus pfitzeriana	65.00
Taxus capitata, seedlings, 2-yr. transp.	100.00
Azalea Hino-Crimson, rooted cuttings.	45.00
Azalea Hino-Crimson, transp. in flats.	100.00
Azalea Hinodegiri, rooted cuttings	45.00

FRANK'S NURSERIES
Waterford Works, N. J.

Quick — Convenient — Cheap!
Selling through the Classified Ads of the American Nurseryman.

SHADE TREES

	Per 10	Per 100
CRAB, RED SILVER		
5 to 6 ft.	$15.00	$135.00
4 to 5 ft.	12.00	110.00
ELM, AMERICAN		
1½-in. caliper	33.00	300.00
1¼-in. caliper	22.00	200.00
8 to 10 ft.	16.50	150.00
6 to 8 ft.	11.00	100.00
5 to 6 ft.	7.00	65.00
4 to 5 ft.	5.50	50.00
3 to 4 ft.	3.00	25.00
POPLAR, SEROTINA		
6 to 8 ft.	10.00	90.00

PLUMFIELD NURSERIES, INC.
Fremont, Neb.

TAXUS CAPITATA FROM JAPANESE SEED

2-yr. seedlings, 4 to 6 ins., $70.00 per 1000.
2-yr. seedlings, 2 to 4 ins., $45.00 per 1000.
Grafted stock for spring, 1956 delivery
Acer palmatum atropurpureum, pot grafts, $65.00 per 100.
Cornus Florida rubra, pot grafts, $55.00 per 100.
Rhododendron hybrids, red, pot grafts, $90.00 per 100.
Terms: Cash with order.
PETER BROUWER'S NURSERIES
24 Lester St. New London, Conn.

EUONYMUS COLORATUS, 2-yr., field-grown, from pots, under irrigation and clipped; 12 to 15-in. spread, $38.00 per 100; 12 to 15-in. spread, $355.00 per 1000.
EUONYMUS MINIMUS, staked upright.

	Each
10 to 12 ins., B&B	$1.65
12 to 15 ins., B&B	1.85
15 to 18 ins., B&B	2.25

WHITHAM NURSERIES
Agency, Ia.

DARK AMERICAN ARBORVITAE
10 to 12 ft., $15.00.
Hybrid Lilacs, 7 to 10 ft. tall, $12.00 each, F.O.B. our nursery.
THE PETER CASCIO NURSERY
2600 Albany Ave. West Hartford 7, Conn.

SURPLUS SHRUB LIST

Available for prompt shipment. Boxing extra at cost.

	Per 100
Philadelphus virginalis, 18 to 24 ins.	$20.00
Regels Privet, 2 to 3 ft.	25.00
18 to 24 ins.	20.00
Snowberry, chenaulti, 3 to 4 ft.	22.00
2 to 3 ft.	16.00
Snowberry, vulgaris, 2 to 3 ft.	14.00
Spiraea froebeli, 2 to 3 ft.	25.00
18 to 24 ins.	20.00
Barberry, red-leaved, 2-yr., 9 to 12 ins.	15.00

CONGDON'S WHOLESALE NURSERY
North Collins, N. Y.

EVERGREENS AND SHRUBS
Finished landscape stock.

Cotoneaster divaricata, 2 to 3 ft., B&B, each	$1.50
Cotoneaster divaricata, 3 to 4 ft., B&B, each	1.75
Cotoneaster zabeli, 2 to 3 ft., B&B, each	1.75
Cotoneaster zabeli, 3 to 4 ft., B&B, each	2.00
Arborvitae, globosa, 2 to 3 ft., B&B	2.00
Arborvitae, Berckmans' Golden, 2 to 3 ft., B&B	3.50
Juniper, Irish, 3 to 4 ft., B&B	2.00

Stock ready for spring 1956 delivery.
FLORAL GARDENS, EATON, O.

EVERGREENS AND SHRUBS

LARGE SIZE STOCK OUR SPECIALTY.
PHONE OR WRITE.
Phone Rock Hall 5693

BOB WHITE MEADOWS NURSERY
Rock Hall, Md.

SHADE TREES

	10	100
Elm, Chinese, 10 to 12 ft., 1¼ to 1½-in. cal.	$25.00	$225.00
Maple, Silver, 10 to 12 ft., 1¼ to 1½-in. cal.	30.00	275.00
1½ to 2-in. cal.	42.50	400.00

WAYNESBORO NURSERIES
Waynesboro, Va.

FAGUS SYLVATICA

2 to 2½ ins.	$20.00
2½ to 3 ins.	25.00
3 to 3½ ins.	30.00

THE PETER CASCIO NURSERY
2600 Albany Ave. West Hartford, Conn.

VEGETABLE PLANTS

READY NOW
OUTDOOR-GROWN
WRITE FOR COMPLETE LIST
OF POPULAR VARIETIES
State inspected, carefully packed.

Cabbage, popular varieties	$3.95 per 2000
Red Acre Cabbage	3.00 per 1000
Onions, popular varieties	3.95 per 5000
Tomatoes, popular varieties	3.00 per 1000
Hybrid Tomatoes	4.75 per 1000
Peppers, hot	4.50 per 1000
Peppers, sweet	3.50 per 1000
Sweet Potato Porto Rico	4.35 per 1000
Sweet Potato Red Velvet	5.00 per 1000

All plants above are F.O.B. plant farm.
PLEASE NOTE: We will wrap the roots of each bunch of plants (except Onions) for only 50c per 1000 plants extra. We use waterproof paper and damp sphagnum moss.

500 Cabbage plants, postpaid	$2.30
500 Onion plants, postpaid	1.50
500 Tomato plants, postpaid	3.00
500 Pepper plants, postpaid	3.30
500 Sweet Potato slips, postpaid	3.50

All guaranteed, fresh pulled, true-to-name.
W. G. FARRIER PLANT CO.
Box 555 Omaha, Tex.

Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

VEGETABLE ROOTS

Mary Washington Asparagus roots, will ship prepaid, 25 roots, for $1.25 or $1.50, outside Ohio. 100 roots for $3.00; 500 for $12.00; 1000 for $20.00. F.O.B. Huron, O. Planting instructions included.
Charles Nickels, Huron, O.

SUPPLIES AND SERVICES

BURLAP

NEW BURLAP
In bolts of 100 to 125 yards.
Protect seeded lawns and slopes from washouts with lightweight 57-in. burlap erosion cloth. Is also an excellent wrapping material for all nursery work. 18½c per yard net, F.O.B. New York. Minimum order 1 bolt. Orders of 3 bolts or more freight prepaid. Heavyweight protection burlap, widths 36 to 72 ins. also available.
LEWIS INTERNATIONAL CO.
666 Clinton Ave. Newark 8, N. J.

FERTILIZERS

SOLUBLE FERTILIZERS
PETERS SPECIAL, 20-20-20, general purpose feed.
PETERS SPECIAL, 21-7-7, chelate iron, Azalea neutral.
PETERS SPECIAL, 21-7-7, chelate iron, Azalea acid.
$6.50 per 25-lb. bag, $22.00 per 100 lbs.
F.O.B. Allentown, Pa.
ROBERT B. PETERS CO.
739 N. 7th St. Allentown, Pa.

If you don't find it listed here
Try a Want ad in the next issue
of the American Nurseryman.

FLATS

PRESERVATIVE TREATED FLATS

Made from a good grade of southern Pine, dipped in "Rot Not" wood preserver for longer life.
Standard specifications, inside measurements.

16x12x2¾	$21.16	20 x14x3¾	$32.25
16x14x3¾	28.10	22¾x15x2¾	31.65
20x14x2¾	27.63	22¾x15x3¾	36.70

Plant boxes, 15x5x5, $20.00. Sides and bottoms of masonite. All prices per 100. Other sizes quoted on request. Priced F.O.B. Birmingham, Ala. We are manufacturers, not jobbers. Our quality guaranteed. Prompt shipment on any quantity. Mixed shipments of flats, plant boxes and spray boards. Write for our price list on these items. Attach check.
HIGHTOWER BOX & TANK CO.
P. O. Box 1449 Birmingham, Ala.

REDWOOD FLATS, K. D.
Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure. $38.00 per 100.
1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., $3.50 per bdl.
50 pcs. to bundle, 5 ft., $4.50 per bdl.
50 pcs. to bundle, 6 ft., $5.50 per bdl.
Ship same day. Cash with order, please.
YOHO & HOOKER, Youngstown 2, O.

MINNESOTA WHITE CEDAR FLATS

Order by No.	Wt. Per 100	Price Per 100
No. 1, 14x20x2¾	320	$25.00
No. 2, 14x20x3¾	400	29.00
No. 3, 12x16x2¾	260	19.00
No. 4, 12x16x3¾	275	22.50
No. 5, 14x16x2¾	275	21.50
No. 6, 14x16x3¾	290	25.50
No. 7, 15x22⅝x2¾	380	28.50
No. 8, 15x22⅝x3¾	425	33.00
No. 9, 11¼x22⅝x2¾	320	23.00
No. 10, 11¼x22⅝x3¾	400	26.75
No. 11, 14x16x5	450	30.00
No. 12, 5x11x5	160	16.00
No. 13, 5x16x5	215	18.50
Plant boxes, 5x8½x2⅝	45	5.00

All other sizes quoted on request.
5 per cent discount on order of 1000 or more.
The above measurements are inside. Bottoms and sides of cedar flats are ⅝-in. thick; ends are ¾-in. Plant boxes are thinner.
All material surfaced on one side.
Your name and address printed up to 3 lines in black ink, on one or both end pieces at the following rates: Set-up charge, $1.00, plus ¾c per piece for the first 1000 ends, ½c per end thereafter. Shipped knocked-down in units of 25.
All shipments by truck unless otherwise ordered, F.O.B. Cook, Minn. Attach check.
H. C. HILL & SONS, Cook, Minn.

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads.

LABELS

DAHLIA OR TREE LABELS

	Priced per 1000 Plain	Painted
3½x⅝ ins., notched (not wired)	$2.50	$3.00
3½x⅝ ins., wired (copper)	3.30	4.10

POT LABELS

4x⅝ ins. (cartons 1000 each)	3.30	3.95
5x⅝ ins. (cartons 1000 each)	3.60	4.30
6x⅝ ins. (cartons 1000 each)	3.90	4.85
8x⅝ ins. (cartons 500 each)	6.00	7.20
10x⅝ ins. (cartons 500 each)	7.00	8.50

GARDEN STAKES
Price per carton

8x ⅞ ins. (cartons 250 each)	2.50	3.00
10x ⅞ ins. (cartons 250 each)	2.75	3.25
12x1½ ins. (cartons 100 each)	1.75	2.00

EVERMARK PENCILS
The original label marker. 1 doz. 7-in. pencils per box, $1.25.
Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.
"We ship the same day."
YOHO & HOOKER
Youngstown 2, O.

WOOD LABELS
Finest grade. Smooth White Pine.

POT LABELS

	Per 1000 Plain	Painted
4x⅝ ins. (1000 per carton)	$3.00	$3.55
5x⅝ ins. (1000 per carton)	3.20	3.80
6x⅝ ins. (1000 per carton)	3.50	4.30
8x⅝ ins. (500 per carton)	5.15	6.35
10x⅝ ins. (500 per carton)	6.15	7.45
12x⅝ ins. (500 per carton)	7.15	8.75

GARDEN LABELS

8x ⅞ ins. (250 per carton)	7.50	8.70
10x ⅞ ins. (250 per carton)	8.50	9.80
12x1⅛ ins. (100 per carton)	14.50	16.50

TREE LABELS

3½x⅝ ins., copper-wired	3.55	4.35

CELLULOID LABELS
3x½ ins., copper-wired, per box of 100 $1.75
WEATHERPROOF PENCILS
Each, 10c; doz., $1.00; gross, $11.00.
AMERICAN FLORIST SUPPLY CO.
1335 W. Randolph St. Chicago 7, Ill.

ORCHID SUPPLIES

OSMUNDA, mixed. Bu., $2.00. Prof. bag, $1.00. Standard bale, f.o.b. Houston, $11.00; 2 for $21.00. Standard bale, f.o.b. Florida, $8.00; 2 for $15.00.
DETEX, a safe DDT spray. Qt., $3.50; gal., $11.00.
WALL TYPE POT HANGERS, hold up to 4-in. pots. Rust-resistant. Space savers. Each, 25c; doz., $2.75; 50, $10.00; 100, $18.50.
BACTO ORCHID AGAR (Difco). ¼ lb., $3.85; 1 lb., $14.00.
SHREDDED WAX PAPER, protect your blooms and plants when packing and shipping. Lb. 65c; 10 lbs., $5.50.
PRICED F.O.B. Subject to change without notice.
WRIGHTWOOD FLORAL CO., INC.
2407 N. Main St. Houston 9, Tex.

PEAT MOSS

VAZACO BRAND
PEAT MOSS

Finest horticultural German peat moss.
Packed in 7½ cubic foot bales.
8 slats, 4 wires, brand new burlap,
makes VAZACO peat moss your best buy.
Ask now for prices.

VAN ZANTEN & CO.
316 East Chelten Ave.
Philadelphia 44, Pa.
Phone Victor 8-1405-6

EXTRA! Also ask for 1956 prices on Holland bulbs. We guarantee highest quality and lowest price.

PEAT MOSS—*Continued*

HOLLAND PEAT MOSS
"BRODLEAF" quality. Just arrived.
Standard burlapped bales,
$3.65 each; 10, $34.25.
Priced F.O.B. Houston.
WRIGHTWOOD FLORAL CO., INC.
2407 N. Main St. Houston 9, Texas

PLANT TIES

THE NEW FADE-PROOF
QWIK-TIES
Now made of colorfast plastic for the florist trade.
Semi-invisible, economical, easy to use.

Packed in cartons of 10,000	Per carton
4-in.	$10.00
8-in.	18.00
12-in.	27.00

Postage paid when cash with order.
Carton lots only!
McHUTCHISON & CO.
95-A Chambers St. New York 7, N. Y.

PLANT TUBS

UTILITY PLANT TUBS
Made from New England White Pine

Size		F.O.B. New Hampshire Per 100 Green	Per 100 White	F.O.B. Chicago Per 100 Green	Per 100 White
7 x 7	ins.	$ 77.50	$ 85.00	$ 85.00	$ 92.50
8 x 5	ins.	72.50	80.00	80.00	87.50
8½ x 6½	ins.	75.00	82.50	82.50	90.00
9 x 6	ins.	77.50	85.00	85.00	92.50
9 x 9	ins.	77.50	85.00	85.00	92.50
9 x 9	ins.	85.00	92.50	95.00	102.50
10½ x 6½	ins.	85.00	92.50	95.00	102.50
10 x 9	ins.	92.50	100.00	107.50	115.00
11 x 7	ins.	85.00	92.50	100.00	107.50
12 x 7	ins.	92.50	100.00	107.50	115.00
12 x 9	ins.	110.00	117.50	130.00	137.50
12 x11	ins.	145.00	152.50	165.00	172.50
14 x 8	ins.	150.00	157.50	170.00	177.50
14 x13	ins.	175.00	182.50	195.00	202.50

ALEC HENDERSON, INC.
1305 W. Randolph St. Chicago 7, Ill.
Phone: Monroe 6-3082

PLASTIC FILM

POLYETHYLENE FILM
All prices per sq. ft.
Quantity discount. .0015 thick, $0.01; .002, $0.012; .003, $0.02; .004, $0.025 F.O.B. Cincinnati, O.
ROUGH BROS.
Dept. AN, 4227 Spring Grove Ave.
Cincinnati 23, O.

RAFFIA

FORGET-ME-NOT RAFFIA
Eastcoast Madagascar XXX natural.
Westcoast Madagascar AAA natural.
Colored Raffia (20 colors).
Highest quality. Lowest prices.
Write for quotation.
THE JOSEPH M. STERN CO.
1968 East 66th St. Cleveland 3, O.

SPHAGNUM MOSS

Fresh, clean sphagnum, large standard burlap bales, $1.30 each. Write for prices on wire bound, burlap bales, in truck or carlots.
Pure Sphagnum Moss Co., City Point, Wis.

Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered.
Warrens Moss Co., Warrens, Wis.

Turn Stock into Dollars
by Listing It in the Classified Ads
of the American Nurseryman.

STAKES

BAMBOO STAKES, DOMESTIC
DIRECT FROM THE PRODUCER

PENCIL THICKNESS	Per 1000
1½ ft., green	$3.60
2 ft., green	4.80
3 ft., green	7.20

MEDIUM HEAVY, ⅜ to ½-in.	500	1000
1½ ft., green or natural	$ 2.85	$ 5.70
2 ft., green or natural	3.80	7.60
2½ ft., green or natural	4.75	9.50
3 ft., green or natural	5.70	11.40
3½ ft., green or natural	6.65	13.30
4 ft., green or natural	7.60	15.20
5 ft., green or natural	9.50	19.00
6 ft., green or natural	11.40	22.80
7 ft., green or natural	13.30	26.60

HEAVY Per 100	½-⅝	⅝-¾	¾-1
4 ft., green or natural	$2.88	$3.44	$ 4.24
5 ft., green or natural	3.60	4.30	5.30
6 ft., green or natural	4.32	5.16	6.36
7 ft., green or natural	5.04	6.02	7.42
8 ft., green or natural	5.76	6.88	8.48
9 ft., green or natural	...	7.74	9.54
10 ft., green or natural	...	...	10.60
12 ft., green or natural	...	...	12.72

Approx. average thickness at bottom end.
A. C. PATTERSON, CENTERTOWN, KY.

STAKES, GALVANIZED HARD STEEL
FOR GREENHOUSES AND NURSERIES.
BENCH WIRE, galvanized.
STAKE FASTENERS.
Prices and samples sent on request.
SCHUPP SUPPLY CO., WILMETTE, ILL.

BAMBOO CANE STAKES
Dyed green, pencil thickness.
Packed 2000 per bale.

	Per 1000	Per bale
1½ ft.	$ 3.50	$ 6.00
2 ft.	4.50	8.00
2½ ft.	5.50	10.00
3 ft.	7.00	13.00
3½ ft.	8.50	16.00
4 ft.	9.50	18.00
5 ft.	12.50	24.00

6 ft., per bale of 500, $10.00.

SPLIT BAMBOO, DYED GREEN

	Per 1000	Per bale (5000)
12 ins.	$2.50	$10.00
15 ins.	3.50	15.00
18 ins.	4.50	20.00
24 ins.	5.50	25.00

F.O.B. CHICAGO
Quantity discounts: 10 bales up, less 5 per cent; 25 bales up, less 10 per cent.
ALEC HENDERSON, INC.
1305 W. Randolph St. Chicago 7, Ill.

NBS
NURSERY BAMBOO STAKES
These imported stakes are specially selected for nursery use. All are bottom or butt cuts for minimum taper, cut closely to a joint to reduce splitting. These are the finest quality available.

	Per bale
4 ft., ½ to ⅝-in. dia., 500 per bale	$22.50
5 ft., ⅝ to ¾-in. dia., 250 per bale	17.50
6 ft., ⅝ to ¾-in. dia., 200 per bale	17.50
7 ft., ¾ to ⅞-in. dia., 150 per bale	19.00
8 ft., ¾ to ⅞-in. dia., 100 per bale	16.00

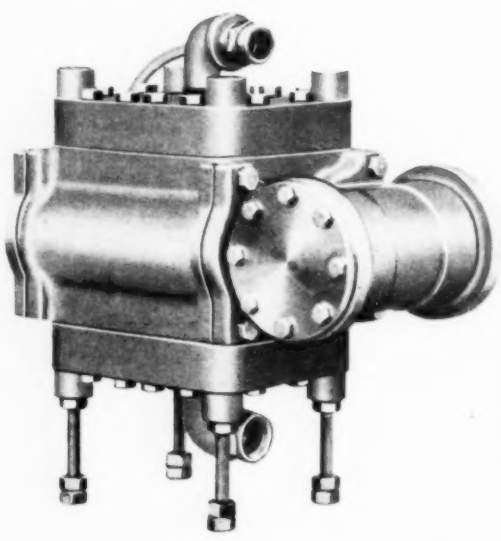
Less these generous quantity discounts; 5 bales up, less 10 per cent; 10 bales up, less 15 per cent; 25 bales up, less 20 per cent. Bale lots only.
F.O.B. New York. Immediate shipment.
Pencil thick bamboo stakes also available. Write for prices.
McHUTCHISON & CO.
95-A Chambers St. New York 7, N. Y.

CYPRESS PLANT STAKES
50 Pieces to Bundle

1x1-in.—3 ft.	pointed	$3.00 per bundle
1x1-in.—4 ft.	pointed	3.50 per bundle
1x1-in.—5 ft.	pointed	4.50 per bundle
1x1-in.—6 ft.	pointed	5.50 per bundle
1x1-in.—7 ft.	pointed	7.00 per bundle

These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."
WE SHIP SAME DAY!
YOHO & HOOKER
Youngstown, O.

Classified Ads Offer Maximum
Results at Minimum Cost.



Write for free descriptive literature, prices, instruction sheet, and list of growers using this equipment.

SMITH PRECISION PRODUCTS CO.
RYan 12293 and RYan 12691
1135 MISSION STREET, SOUTH PASADENA, CALIFORNIA

MEASURE MIX

LIQUID FERTILIZER DISPENSER

ACCURATELY measures fertilizer and mixes it with water in a SAFE proportion.

The Smith Measure-Mix is an automatic, accurate, dependable, non-hazardous device for injecting liquid fertilizer solutions into the water supply. It is driven by the flow of the water, so requires no electric power connections or gasoline engine. All the water used in feeding must flow through the machine. Accuracy is guaranteed within 10% with all types of liquid fertilizer solutions, and in most services is within 2 to 5%. This accuracy will be maintained regardless of any changes in the water pressure or rate of water flow.

The Smith Measure-Mix gives very satisfactory service in normal use. There are no worries about getting too much fertilizer in the water, resulting in plant losses from "burning." If anything ever goes wrong with a machine, it applies *less* fertilizer, *never* more.

Model R-3 for ¾" hose connection (portable unit) will handle up to 15 gallons per minute of water. Model R-8 for 2" pipe connection (usually permanently mounted, but can be portable) will handle up to 100 gallons per minute of water. Either model can be made to proportion liquid fertilizer in any amount desired.

Bring YOUR Advertisement to Nurserymen's Attention in the

JULY 1

A. A. N. CONVENTION NUMBER

(Saluting the 81st Annual Convention of the American Association of Nurserymen)

of the AMERICAN NURSERYMAN

Those who attend the A. A. N. Convention at Los Angeles, Calif., July 15 to 19, will use the July 1 A. A. N. Convention Number of the ***American Nurseryman*** as a guide to convention activities — to read about the speakers and for planning their own individual program while at the convention. Those who do not attend will see the convention through the eyes of the July 1 special number and the August 1 issue, which will carry a full report of the convention.

Put your advertising message before ***American Nurseryman*** readers both BEFORE and AFTER this important meeting. Let them know what you have to offer . . . where they can get in touch with you while at the convention . . . and all the important facts about your products to aid them in placing an order with you. Remember, too, the special number continues to work for you after the convention is over because it is retained by readers for use as a year-round buying reference guide.

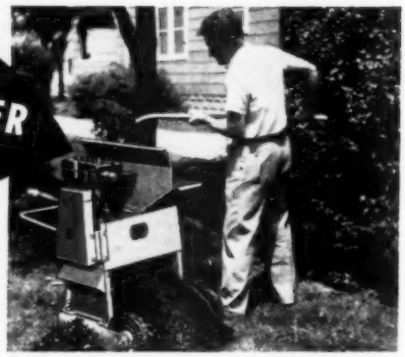
DON'T MISS THIS OPPORTUNITY TO REACH 9,800 NURSERYMEN WHILE THEIR ATTENTION IS FOCUSED ON THIS IMPORTANT CONVENTION

→ **FORMS CLOSE JUNE 7**

GETS THE MOST OUT OF YOUR SOIL

THE ONLY COMPOST GRINDER

THAT DOESN'T REJECT CLODS AND HARD SOD



W-W COMPOST GRINDERS & SOIL SHREDDERS

GRINDS OR SHREDS AS DESIRED

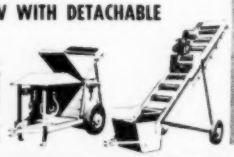


PORTABLE MODEL 2-XB

$184.50 complete with 2½-h.p. Briggs & Stratton retrievable starter engine or $128.50 less engine and belt guard. F.O.B. Wichita.

MODEL 4-EV WITH DETACHABLE ELEVATOR

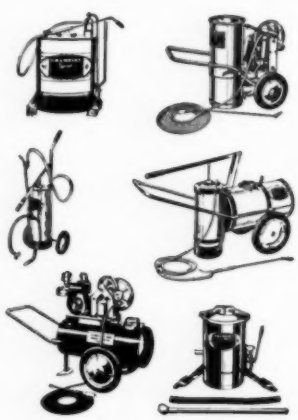
Grinder and elevator detach so each can be used separately $752.40, complete with two engines FOB Wichita.



There is no other compost grinder that can compare with the W-W Compost Grinder and Soil Shredder. It comes equipped with interchangeable rollers and grinding screen so that, with the rollers in, you can shred organic matter properly for composting or mulch . . . or, with the screen in, you can make potting soil and top-dressing from heavy sod, and you can mix compost, mulch or other fertilizer with your soil. It literally turns leaves, twigs, stalks, prunings and manure into gardener's gold. It handles practically everything . . . reduces it to the desired texture . . . and rejects only the unwanted trash.

Write for literature and dealer's name.

W-W GRINDER CORP. DEPT. F WICHITA, KANSAS



It's EASY, *FAST* . . . to DUST or SPRAY with a CHAMPION!

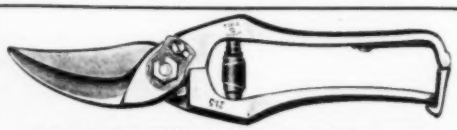
You can always depend on a Champion—quality-built since 1915 for performance, long life and value. Write today for free literature on all Champion portable sprayers and dusters.

CHAMPION SPRAYER COMPANY

Manufacturer of Portable Sprayers and Dusters

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Distributorships available—write for details



No. 855, 8-in. TINA, double-cut, precision pruning shear.

Insist on today's leading German brand — TINA. Superior to any other German brand. Request our illustrated catalog.

HERMANN A. WIRTH

LEVITTOWN, N. Y.

FIRE DAMAGE FACTS

[Continued from page 51]

to the speaker, can be less than the secondary injury and damage due to insects. These often destroy trees which might survive were it possible to protect them while they are weakened by the fire damage. During the first year the turpentine beetle does the most damage, while the second year after the fire the bark beetles become most active. Dr. Wagener said that, in this regard, an early prognosis as to survival of the trees should be obtained, for the lumber companies, which cut the trees that cannot survive, like to get into the stands before the insects begin their damage. The insects stain the wood for a considerable area around their points of feeding and lessen the value of the timber. He said, too, that fired trees are much sought after by the lumber firms and they pay about as much for the burned stumpage as they do for fresh timber. The reason for this high price for burned timber, which a few years ago had almost no value, is because there is such a growing shortage of large dimension timber.

Timber Supplies

The foregoing remarks brought up the discussion of forest conservation and future tree supplies locally, nationally and internationally. Dr. Wagener believes that over-all timber supplies in this country are decreasing, though perhaps certain kinds are being replaced at least as fast as they are now being used. On international supplies Dr. Wagener felt less qualified to answer, but he did express the opinion that the Canadian supplies are relatively limited and much of that supply is pre-empted by Great Britain. South American supplies are apparently large, but, the speaker explained, tropical forests are not a good source of timber at this time.

Some time was devoted to a discussion of plans for the National Shade Tree Conference meeting at Palo Alto late in May, and it was indicated that a large attendance is expected.

The next meeting was scheduled for May 16. W. B. B.

STONEWALL NURSERIES, INC., 691 Rivervale road, Westwood, N. J., operated by Jack Wellenkamp, consists of seven acres, two and a half under cultivation, the rest now being planted to lining-out stock. The firm does general landscaping and specializes in the growing of evergreens, flowering shrubs and shade trees.

Holden Arboretum Today

By Lewis F. Lipp

To many the orientation of the Holden Arboretum is the finest in America for an arboretum. Conveniently located in Kirtland Hills, 20 miles east of Cleveland, it is easily accessible by rail, bus and car. Yet this arboretum is completely isolated from the ever-present industry that is rampantly springing up throughout the countryside. Best of all, the Holden area covers 500 acres all in one piece, with room to grow, in a community of private homes.

An extensive tract of the Holden Arboretum consists of a stand of native growth with its underbrush of briars, saplings and wild flowers, all left intact for the benefit of wildlife. There are trails for the meandering hiker and a bridle path for the horseback rider. Here is to be found much respect for the land. Its familiar landmarks of virgin oaks, black cherries and a network of native beech combine with a deep ravine and a sparkling stream that seems to change its course each spring.

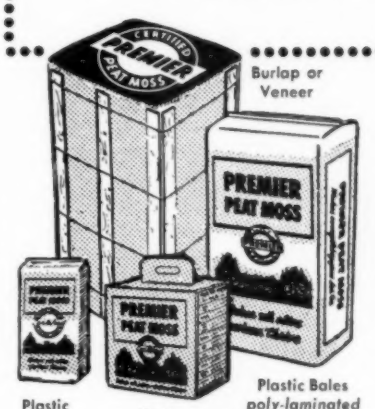
Water Features

There are also several acres of man-made lakes and ponds that, in a sense, are unprecedented for an arboretum. These bodies of water have several special functions, for when the rainfall dwindles, they adequately supply fire protection, and they are invaluable for irrigating the newly set trees and shrubs. Year in and year out, Canada geese, wood ducks and mallards descend upon Corning lake. Here they sense the wildness of the setting with a tranquillity of wooded hills, open fields and an occasional glimpse of a roaming herd of deer. These ponds and lakes are a valuable asset in attracting new members, as members have the privilege of fishing at the Holden. The lakes are well stocked with bass, sunfish, perch and pickerel, which are comparable in size to those found in many earlier existing ponds of this state.

In 1938, Dr. E. Merrill, who was then director of the Arnold Arboretum, in Massachusetts, advised that,

THEY'RE PACKED WITH PROFITS

— the fastest-selling soil conditioners



Burlap or Veneer

Plastic Bags Cartons Plastic Bales *poly-laminated inside and outside*



2½, 5, 25, 50, 100 lbs. in double plastic-burlap bags and clear plastic bags.

PREMIER PEAT MOSS

The Biggest Selling Brand

MANY USES— Premier Peat Moss absorbs up to 20 times its weight — adds organic matter for fast germination and growth—and gives you better mulching, transplanting, seedbeds.

HELPS YOUR SELLING—Premier helps you grow more salable plants—and at the same time offers your customers the best-known, best-selling soil conditioner.

PROFITABLE PACKAGES—Display Premier Peat Moss now—in moisture-proof, rot-proof plastic bales—big-value bales—and colorful bags and cartons that sell on sight.

SOIL X-PEDITER

The Extra Fine Sphagnum Peat Organic

EXTRA FINE — Premier Soil X-pediter blends uniformly and completely with the soil—roots feed faster. Free-flowing — easy to spread.

SPHAGNUM PEAT—Pure, clean, non-gritty — stores more food, air, moisture for full, fast growth. It's composted naturally.

EXTRA PROFITS— Soil X-pediter is a fast seller for soil-building, top-dressing, seedbeds, transplanting, potting soils — at a high markup and established retail prices. Display Soil X-pediter now—in double plastic-burlap bags and colorful clear plastic bags.

Write, wire or phone for prices

PREMIER PEAT MOSS CORP., 535 FIFTH AVE., NEW YORK 17, N. Y.

RA-PID-GRO

Makes More Money For You 2 WAYS!



1. Use it!
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STOCK UP ON RA-PID-GRO NOW

RA-PID-GRO CORP. Dansville, N. Y.

The Pioneer In Foliar Feeding

GARDEN CLUB SHRUBBERY PROTECTOR



SHRUB-GARD

An invention that protects your shrubbery from the menace of destructive corrosive action caused by dogs. Makes the dog's visit so uncomfortable that he keeps away, yet it is so constructed that it will not harm the dog. The SHRUB-GARD is a unit of steel spring wires that are flexible and will not tear clothing of passers-by. Each SHRUB-GARD has three prongs and covers approximately two and one half lineal feet. Harmless to dogs or humans. Packed one dozen to a carton, weight 2 lbs. Retail price $3.75 per dozen. Write for Discounts

THOMAS J. MAGEE
631 E. WADSWORTH AVE. PHILADELPHIA 19, PA.

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements

Display: $4.00 per inch, each insertion. **Liners: 35c** line; minimum order **$3.50.**

HELP WANTED

Thirty-acre landscaping nursery has opening for nursery foreman. Must be able to handle men and have full knowledge of general nursery maintenance and preparation of plant material for landscaping crews. Propagating experience would be an advantage but not a necessity. Four-room modern home on nursery premises available to applicant. State salary desired, qualifications and enclose recent photo, unless applying in person.

SCHUELL NURSERIES
R. 4, Box 240 South Bend, Ind.
Phone: Central 4-0444

HELP WANTED

Salesman to call on nurserymen, florists, seedsmen and landscape gardeners, selling complete line of nursery stock for large midwestern wholesale nursery at liberal commission. For full details, write Box 268, care of American Nurseryman.

HELP WANTED

PROPAGATOR

Large wholesale nursery near Memphis, Tenn., needs experienced propagator to take complete charge of propagation of coniferous and broad-leaved evergreens. Must be capable of handling help and getting results. Good facilities and nice home on premises available. Give references.

CARTWRIGHT NURSERIES
Collierville, Tenn.

HELP WANTED

Have opening for man with ability to design, sell and supervise installation of underground lawn sprinkling systems. Landscaping background would be an asset but not a necessity.

SCHUELL NURSERIES
R. 4, Box 240 South Bend, Ind.
Phone: Central 4-0444

HELP WANTED

PROPAGATOR

Wholesale nursery near midwest area needs experienced propagator to take complete charge of propagation in nursery and greenhouse. Good facilities and nice home for family. Give references. Write Box 280, care of American Nurseryman.

HELP WANTED

SPRAY FOREMAN

A man of general experience in shade tree spray work needed by a well-established firm, in business over 25 years. If you are the right man, we have a good job for you. Write:

PARR & HANSON, INC.
Arborists
P. O. Box 186 Hicksville, N. Y.

HELP WANTED

General manager in charge of production for expanding southern nursery. Good facilities, pleasant working conditions. All replies kept strictly confidential. Our employees know of this ad. Write to Box 290, care of American Nurseryman.

SITUATION WANTED

Seeking a position with a future. Have B.S. degree in ornamental horticulture and good training in plant diseases and control. Experienced in chemical field tests, nematode problems and employee supervision. Can supply the very best of references. Address replies to Box 288, care of American Nurseryman.

FOR SALE

Landscape and spray service business with 51-acre farm. Good soil, ideal for nursery. Sixteen acres in fruit, approximately 450 trees. Eight-room house with all modern conveniences, oil heat, large storage barn, tool house and garage. Excellent roadside market one mile from city. Located 35 miles from Schenectady, N.Y. Gross last year, $25,000. Price with equipment, $27,000. Write to Box 289, care of American Nurseryman.

FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.
1080 Magnolia Ave. Elizabeth, N. J.

FOR SALE—Used 50-lb. lard pails with handles, not cleaned out, $65.00 per 1000 F.O.B. Beulah, Mich. Can be shipped by rail only. Pails nested, weight 2¾ lbs. each. For freight rates see your local agent. Lids available $10.00 per 1000. Samples on request. PET-RITZ FOODS, Beulah, Mich.

FOR SALE — Used 30-lb. tins, $50.00 per 1000 in carload lots. F.O.B. Beulah, Mich. Car average 5000-tin capacity. Cans cleaned before loading. For freight rates see your local agent. Lids available at $15.00 per 1000. Samples on request. PET-RITZ FOODS, Beulah, Mich.

WANTED TO BUY

Modern garden center and nursery. Must gross minimum of $75,000. Replies held in strictest confidence. Address replies to Box 291, care of American Nurseryman.

for popular interest and further financial support, wider planting of the more ornamental trees and shrubs should be made. This advice was followed, and thus began the planting of trees and shrubs by plant families, regardless of their association in nature. The Holden Arboretum is fortunate to have a well-known Cleveland landscape architect completing the collections in blueprint so that the most casual visitor upon examination can quickly acquire a fresh perspective of the present and future ornamental plant material. Even more important, these plantings form a permanent, accurate botanical record. Little by little, trees and shrubs are planted in their rightful places, marked with an easy-to-read wooden display label, as well as by a metal record label. The notable accumulation of plant material within the past year has been largely through contributions from nurserymen from all over this country—men who have a stout faith in the value of the Holden Arboretum.

Can Stock Utilized

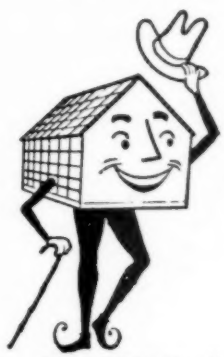
Strictly on an experimental basis, an entirely new concept in the handling of plant material for an arboretum is being promoted here. This is the growing on of the material in metal nursery cans, from which they are moved directly to their prospective place in the arboretum. Taking full advantage of this new method, it has been possible to move daphnes, cytisus, nyssa and other plants which are difficult to get established by the conventional method of transplanting. To date this method has been highly successful, eliminating acres of nursery, as well as being a swing away from the handling of bulky trees and shrubs, thus greatly extending the scope of a limited budget.

While the development of the Holden Arboretum has been under private management, in 1950 an area was set aside for the purpose of establishing, in cooperation with the department of forestry of the state of Ohio, a demonstration farm wood lot. And, more recently, a large tract of cleared land has been designated as a space for the species and named varieties of nut trees, in conjunction with the Northern Nut Growers' Association.

Community Connections

Associated with the Holden Arboretum are two boys' camps, which are operated during the summer months. One is a day camp and the other a 5-day boarding camp. The program has made not only a tangible contribution in terms of work projects in the arboretum, but pro-

DON'T NEGLECT YOUR "BREAD AND BUTTER"
KEEP GREENHOUSES IN REPAIR
WITH ECONOMICAL METRO



"MR. METRO"

GREENHOUSE SUNDRY ITEMS

No. 21 Roof Bar, 1⅝x2¼-in. 19½c
Milled from clear heart California (Sequoia Sempervirens) redwood, full size, rounded edges for better painting surface, smoothly machined.

No. 200 ridge cap, 1¼x3½ ins.	ft.	$0.30
No. 240 ridge, 1¾x5 7/16 ins.	ft.	.60
Roof vent sash for 5—16-in. lites	ea.	8.55
No. 243 vent header, 5—16-in. lites	ea.	2.70
No. 249 vent seats, 29 ins.	ea.	.22½
No. 194 wood eave, 1¾x5¾ ins.	ft.	.60
No. 148 glazing sill, 1⅝x2¾ ins.	ft.	.30
No. 22 side and gable bars, 1¾x1¾ ins.	ft.	.15
3 ft. x 6 ft. 10 ins. x 1¾ ins., greenhouse door	ea.	28.67

ALUMINUM ITEMS

Most wood members can be replaced with aluminum members; write for details.

SUNDRY GLAZING CAP

For use with conventional wood ⅝-in. tongue roof bars ..... 4c each complete.

Galvanized glazing brads, ¾-in.	Lb.	$0.39
Zinc glazing nails, ⅝-in., plain or headed	Lb.	.73
Plain or headed, 6/8-in. and 7/8-in.	Lb.	.72
Van Reyper glazing staples ..... 9/16-in., pkg., $0.80; 5/8-in., pkg.		.84

Metro Humidifiers—Prices on Request

All prices F.O.B. our plant, 3% discount for cash. Prices subject to change.

***GROWING* WITH AMERICA SINCE 1871**

Double Strength clear glass, greenhouse or "B" quality

10x12-in. (60 lites per box)	$8.28
16x18-in. (25 lites per box)	8.28
16x24-in. (19 lites per box)	8.28
18x20-in. (20 lites per box)	8.28
20x20-in. (18 lites per box)	8.28
20x24-in. (15 lites per box)	9.17

METRO GREENHOUSE PUTTY

Knife grade, with pure linseed oil.

100-lb. drum	$10.37
82-lb. drum	8.53
50-lb. drum	5.18
25-lb. can	2.91

METROLASTIC COMPOUND

Gun or bulb grade, stays soft for years.

5-gal. drum	$13.80
1-gal. can	2.90

METRO BEDDING COMPOUND

Knife grade—remains elastic permanently.

100-lb. drum	$13.20
50-lb. drum	6.95
25-lb. drum	3.45

The Metro line of construction fittings is complete — many sizes — send for parts list, or send us your list. We will be glad to quote prices.

METROPOLITAN GREENHOUSE MFG. CORP.

Greenhouse Builders — Heating Engineers

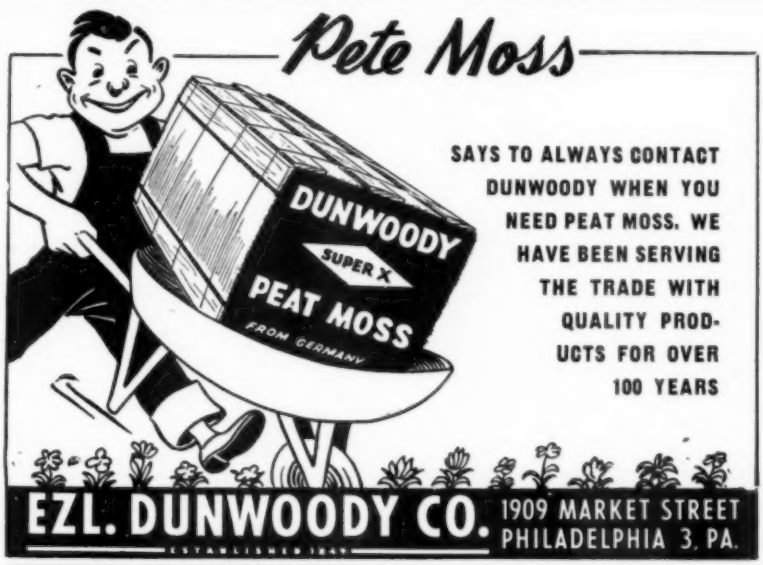
Executive Offices **1869 Flushing Ave.** **BROOKLYN 37, N. Y.**

vides the campers with a rich and practical culture in the association of living plant material that will help them assume their responsibilities in society and citizenship.

Relationship between the townspeople and the arboretum is cordial on both an individual and family basis. The children of the village are given swimming instructions in the Corning pool at the Red Oak camp during the summer session. Lectures on plant propagation, as well as on the progress of the arboretum, have been made available to organized groups. The propagating department gives useful courses in plant propagation, including a class organized exclusively for the Golden Age Center, of Cleveland, O.

Warren H. Corning, executive director, instigates a diversity of projects to inspire and satisfy today's horticultural public. The growing membership in the Holden Arboretum group is an indication of the success of his program.

While the future of the arboretum has been adequately provided for through the will of Albert Fairchild Holden, it is at present dependent upon funds raised through memberships and a few substantial gifts from devoted citizens. With their help, the purpose and promise of the arboretum will be fulfilled and will continue to bring cultural enjoyment, through horticulture, to the citizens of the Buckeye state.



MELVIN SWENSON recently moved the Swenson Nursery to new headquarters at 35055 Avenue B, Yucaipa, Calif., from its former location on First street. The new building covers an area 120x200 feet.

E. A. TERRELL is planning to conduct a wholesale nursery operation under the firm name Terrell & Wallace, P. O. Box 928, Charlotte 1, N. C. Having a farm and dairy, Mr. Terrell has been growing hollies as a private specialty, but is now planting other shrubs, including azaleas as another major item, on 30 to 40 acres as a commercial venture. A 14-acre arboretum is also maintained.

Market Research for the Nursery

By Max E. Brunk

My present assignment results from the small part I have had in initiating a new project in the agricultural experiment stations, which deals with the marketing of ornamental nursery crops in the northeastern states. I accepted this assignment for the purpose of describing this new work.

We are likely to have a little trouble in communication, because marketing research is my profession. I find it both fascinating and rewarding, but I know that you people are not much interested in marketing. You'll sit up and argue until midnight about the pros and cons of guaranteed sales, or about the propriety of week or season-end price specials, about the rooking you are getting from the express company or about the fly-by-night operator who invades your territory on a hit-and-run basis. But when it really comes down to it, your interests in marketing are passive compared with your interest in production problems. Nurserymen inherently have their fingers in the soil, and the thought of a customer's interrupting such a pleasant activity is repulsive.

Thriving Business

The past ten years have been good to you. Business has been unbelievably good. You have been content to grow your product, throw it on the market and watch it sell itself. Some of you may think you are selling bushes, but indeed you are not. You are selling the raw product of a home gardener's delight. Some of you may think you are selling shrubs, but really you are selling beauty and pleasure, and everyone likes that. The nurseryman sells trees, but your customers are buying visions of shade and the privacy of a back yard. Yes, you have really got a product, but let's not for a moment forget what that product is. Certainly it is not bushes or shrubs or trees. All Americans know that a few dollars invested in landscaping are returned manyfold in property values. You are in a position to take advantage of an old but obscure economic law known as the "importance of being important." In other words, a few unimportant dollars spent on landscaping turn into important dollar values. Put in another way, the price of your product can double, and people will still buy nearly as much of it. Your price competition is among yourselves—not with other products. This, in my mind, calls for something other than conventional selling methods.

Cornell Short Course

This is the impression I got when I attended a special session on retail sales at the Cornell short course recently. It was a lively session, with lots of discussion devoted almost entirely to how to handle the flood of customers you have. Never before did I realize that the customer was such a cold lifeless, inanimate object. Ways were sought of keeping him out of your nursery, of distinguishing the sure-fire prospect from the prudent shopper so that you could ignore the latter, of giving them number tags in order to rank them for their turn at your cash register. Some seemed to pass their customers through a sort of quick psychoanalysis. That meeting made a profound impression on me. For a moment I thought I was off my rocker or in a utopian world, for in the market I know the customer calls the shots and runs the show.

That meeting made a profound impression on me for it emphasized, more than anything could, the unprecedented prosperity our nation is enjoying. We closed out 1955 with a gross national product pushing a fantastic 400 billion dollars. Building activity, which is so vital to the nursery business, appears to have no letup. The only thing the Democrats can find to talk about is agricultural prices, which are off a little but simply because we are producing more than 160,000,000 stomachs can possibly hold.

But all this has its sobering thought. Certainly things are not long going to be so easy. One of two things is going to happen which will in the future turn your interest more

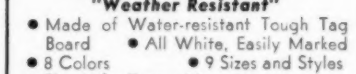
The accompanying article, "Market Research for the Nursery," was an address by Dr. Max E. Brunk, professor of marketing, Cornell University, Ithaca, N. Y., at the eastern nurserymen's convention held at New York city.



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DRESS UP YOUR PLANTERS WITH UNION PLASTIC TRELLISES!



Union Pagoda Trellises are designed for beauty . . . planned to set off any assortment of plants. Choice of gaily decorated butterfly, hummingbird, love birds or flamingo. Also available without ornament.

Six eye-catching plastic colors.

Write today for catalog and prices.

UNION PRODUCTS, INC.
Leominster, Mass.

to marketing. Either business conditions will turn downward or increasing numbers of new producers are going to be attracted to the nursery business. Our only hope is that in the meantime we can develop a more effective and efficient marketing mechanism.

Funds for Research

Four or five years ago flower producers began feeling the squeeze and began paying more attention to research in market development. I cannot take the time to describe all the struggles they went through. Anyway, they financed early undertakings in marketing research in the colleges, and only after much effort were they able to get appropriations of public funds to carry on this work. Having started this activity in floriculture, the directors of all experiment stations in the northeastern states have decided that the same thing is desirable for the nursery industry. As a result eight states in the northeast this year have inaugurated research in the marketing of ornamental nursery crops. This year something like $30,000 of federal and state funds will be used for this work in these eight states. In other words, the very thing the florists had to work so hard to get is more or less being handed to you as an opportunity.

Whether or not this activity is continued in the years ahead is going to depend on you. Likewise the kind and direction of this research will depend on your interests. Frankly, I think there is danger that the whole effort may be premature. There is no question in my own mind that someday you will really be calling for and needing this work, but if because of apathy it fails now, it is going to be doubly hard to develop in the tough years that lie ahead.

Nursery Cooperation

Your responsibility is going to be to work with the research people in this area. They, like myself, know nothing about the nursery business. If they are to do productive work, they are going to need your backing, your sympathy and, above all, your ideas. If they end by working on problems which you consider trivial or worthless, do not make the mistake of blaming anyone but yourself.

Now, so that we may get on a common footing and understand each other, I'd like to explain what marketing research is. Many of us have the idea that it is nothing more than the statistical compilation of questionnaires concerning how a business operates or of what people say

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- Works close without damaging trees, shrubs or plants.
- Low in cost for its high quality.
- Many proved, low-cost attachments for year-round use available.
- Used by many nurserymen all over U. S. in both large and small operations.

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they want in the way of a product. I assure you that that is not the case, even though much so-called marketing research is of this nature. As a matter of fact, we no longer place great confidence in surveys of consumer opinion and the like, even though we must sometimes resort to them when dealing with some problems.

Marketing Problems

At the risk of oversimplifying the subject, I like to think of marketing problems as falling into three main areas. The first I call market development. Market development deals with the adoption of improved selling and merchandising practices or the discovery and development of new market uses and outlets. The same thing can be done with nursery crops, I am sure.

The second general area is operational efficiency. If we cannot develop and expand our markets, then we must search for ways of reducing costs. Improved work procedures and adaptations of equipment can result from making comparative cost studies among firms having common handling problems. Use is made of methods engineering, time and motion study and work simplification techniques. The principles can be applied to package development on similar problems, as well as work routines.

Some of us have the idea that we do the job better than anyone else and that there is no advantage to exchanging ideas with others. We like to think that we have trade secrets that are so precious we must keep them hidden. We are simply fooling ourselves. All too often we are harboring nothing but a highly inefficient, uneffective practice, in spite of our beliefs. Let us never forget that other people have ideas and that any method, procedure or device can be made more effective. I have made many methods engineering studies and have seen hundreds of examples. In fact it is an interesting phenomenon that, once these artificial barriers are broken down, progress in cost reduction really begins to take place, and it is almost invariably the firm that had the most effective practices to start with that makes the greatest improvements as a result of such research.

Market Information

The third area of marketing deals with improved market information. This is the dullest and most uninteresting of the three areas, but can be of much value to your industry. To do an effective job of selling and

USE these products — **SELL** them in your GARDEN STORE

ActivO Puts LIFE in your soil!



Energizes, extends and conserves fertilizer! A composition of nature's own virile organisms, biotics, enzymes, hormones and vitamins in a rich humus base. Just mix with fertilizer, mulches, potting soil, compost, etc. Money back if claims not substantiated! Retail sizes at $1, $2.95, $5.95, $11.95, $19.95 and $29.95. Good trial size is the $5.95 (postpaid) which energizes up to 6500 lbs. of fertilizers, mulch, soil, etc.

HormeX Easy - to - use LIQUID



For ROOTING cuttings and bulbs. Now you can root your cuttings by merely soaking hundreds at a time for a few moments in HormeX solution before inserting in medium —or by flooding the medium before or after inserting cuttings. Liquid is cheaper, faster, easier than powder.
HormeX is also widely used for spraying—to stop blossom or fruit drop, or set blossoms into more fruit and seed.
Economy size, $2.49, prepaid, makes 8 to 100-gallon solution. Money-back guarantee.

GROW-POWER for ROSES



Ultra-rich compost base; fortified with organic foods and stimulants roses like. Long-lasting results. No leach loss. Neutral pH. Energized with ActivO. In 5-lb. bags, packed 12 to bale, for retail at $1. In 50-lb. plain bags for your own use. 2 for $5.49; 6 or more, $1.80 each; 25 or more, $1.35 each.

GROW-POWER Planter Mix



As near perfect a planting aid as man can devise. Difficult to write about without superlatives. MORE—much more—than a potting soil. Use straight, or dilute up to 400 per cent for potting. NOT a fertilizer yet rich and complete enough to feed, energize and condition soils for permanent results. In 2½-lb., colorful, re-usable polythene bags, 24 to the carton, for $1, retail. Bulk available for your own packaging.

COMPOST GROW-POWER brand

If this is not the richest and most complete commercial compost you ever used, your money will be refunded. In 10-lb., 50-lb. bags; bulk. Please send post card for prices.

ATLAS Fish Fertilizer

Size	No. per case	Weight per case	Retail	Wholesale per case
4 oz.	24	15 lbs.	$ 0.39	$ 5.62
Pint	12	25 lbs.	.99	7.80
Quart	12	45 lbs.	1.89	14.82
Gallon	4	45 lbs.	6.25	16.25
5 gal.	1	50 lbs.	25.95	16.90
30 gal.	1	230 lbs.	....	75.00

5% extra discount on 5 cases.
Full freight allowed on 100 lbs.

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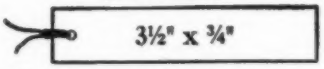


A portable irrigation system equipped with Skinner sprinklers can be moved where "rain" is needed . . . lets you water large areas at lowest possible cost.
Skinner's efficient, uniform water distribution insures better, healthier stands and faster growth . . . lets you control soil moisture to make setting and transplanting easier.

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ALUMINUM TAGS
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- Patented cardboard backing permits easy embossing with ordinary lead pencil.
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Model 543 - 9E



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Put around the plants early. Heavy stems protruding may be tied to support as plant nears production growth — Extra stake furnished to support the early growth.

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growing, for that matter, we need better information on price trends and prices among alternative markets. We need information on crop conditions and outlook for both short and long time supply. We need to encourage the collection of census information, for this is not only useful in showing the long time shifts in your business, but also it reveals the importance of your industry when it comes to fighting for favorable express rates or for federal or state appropriations in fostering research activities.

WITCH HAZEL QUARTET

[Continued from page 11]

hazels in foundation plantings. The same is true of many homes that are not on lots with 50-foot frontage. Shade, full sunlight, variety of soil types, soil acidity and alkalinity, lack or abundance of soil moisture and windy areas do not have to be seriously considered before planning to use witch hazels.

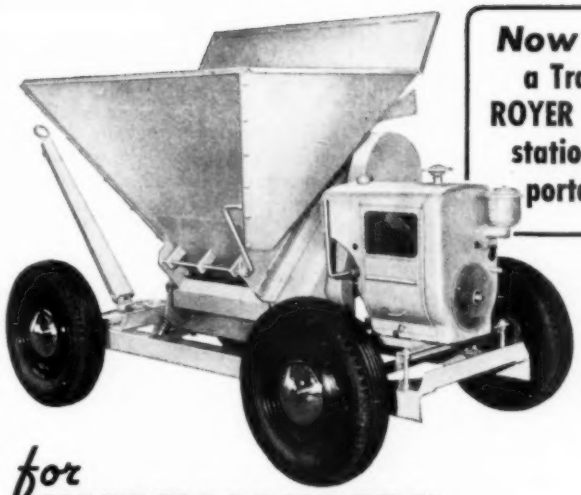
The witch hazels can be used where multiple-stemmed trees are being considered, since they, too, add stability to plantings because of their sturdy bases. The development of a good lawn beneath the branches is not hampered, and the witch hazels do not have any serious insect or disease problems.

It may be well to plant witch hazels near windows that are used most during the winter months, or where they may be easily seen from such windows. They can add a little winter spark to many plantings.

The corners of many buildings are good places to put these plants of large leaves and informal habits, and they can also be important parts of the shrub border that needs additional height. Witch hazels are suitable for woodland areas, stream banks, shaded walks, city gardens and even for planting near a tool house. Of course, witch hazels do fill in that gap in a flowering sequence for which other shrubs and trees do not qualify.

Combination Plantings

The witch hazels are compatible with many shrubs and trees, but they combine better with some than others, for landscape and aesthetic reasons. When planted with rhododendrons they present a pleasing foliage contrast in spring, summer and fall, while the flowers are also shown to full advantage by the rhododendron leaves. The royal azalea, Azalea schlippenbachi, is also a good partner. Many of the viburnums are effective in a planting with the witch



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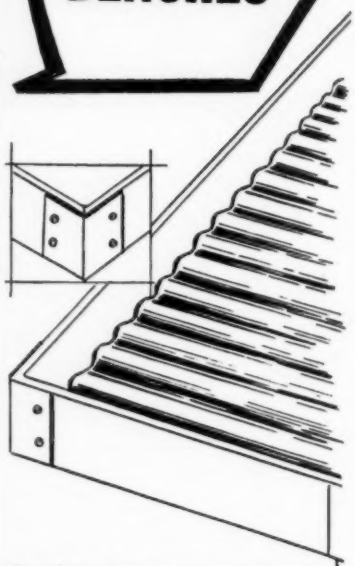
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hazels, such as the linden, V. dilatatum; doublefile, V. tomentosum; Carl's, V. carlesi; tea, V. setigerum; arrowwood, V. dentatum, and Kentucky, V. molle.

In a woodland you may note how well the witch hazel joins a seeding of spicebushes, Lindera benzoin, that is sprinkled with common winterberries, Ilex verticillata. Yews and hemlocks also grow well in the company of witch hazels, as do clump and tree forms of flowering and Kousa dogwoods. This list could be extended to include weigelas; early forsythias; Forsythia ovata, and even such hollies as English, I. aquifolium; American, I. opaca; Chinese, I. cornuta, and Burford, I. cornuta burfordi. Cherry laurel also is a good choice for planting in combination with the witch hazel clan. There are a few plants that do not do so well in the company of witch hazels as with others. They include such shrubs as mock orange, deutzia and beautybush.

Other useful members of the witch hazel family, hamamelidaceae, are sweet gum, Persian parrotia, fothergilla and the winter hazels, all of which are worthy of consideration and may possibly be incorporated into an article at another time.

So, the next time you are in need of large shrubs for a landscape, give the witch hazels more than a passing thought, because they can please you and the fellow who keeps you in business, your client. C. E. L.

NOTEWORTHY PLANTS

[Concluded from page 8]

width at 16 years. Pinus mugo slavini, found among seedlings of the mountain pine, is a definitely dwarf form with dense, erect branchlets and now less than four feet high and six feet wide at more than 30 years. Of exceptional hardiness as a species, this form should be most useful where a durable, low-spreading evergreen plant of practically unchanging size is desired.

FREDERICK CHASE is starting a retail nursery business at Harrisonville, Pa., R. D. No. 1, and will specialize in the growing of named rhododendron varieties hardy in the local climate.

SPECIALIZING in azaleas and evergreens are Guignet Nurseries, Route 1, Emmaus, Pa., started in the past year by George T. Guignet and his son, George M. Guignet. The elder Mr. Guignet was in the nursery business with his father 30 years ago.

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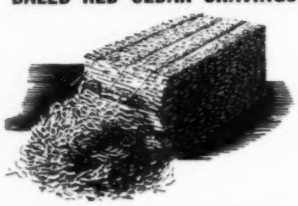
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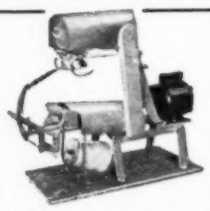
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BOOK REVIEWS

SOIL STERILIZATION

As the practice of soil sterilization spreads, the need of accuracy in the operation increases in order that it may be most effective. Recent research has revealed that this may be put on a scientific basis. The results of such research, along with a general description of methods and apparatus, are contained in "Soil Sterilization," by W. J. C. Lawrence, head of the department of physiology and plant culture at the John Innes Horticultural Institution, Hertford, England, at which much research in the subject of the book has been done. Mr. Lawrence is the author of other books pertaining to plant culture as well known here as in his country.

In this 169-page book, just published by the Macmillan Co., at $3.50, both steam and chemical sterilization are discussed, the former at greater length than the latter because of its larger employment in greenhouse culture. While the theoretical background is provided, the book is essentially a practical guide for plant growers.

INSECT PESTS

Primarily a college textbook, "Insect Pests of Farm, Garden and Orchard" is a useful reference book on the enemies of farm and orchard crops. The fifth edition, by the late Leonard Marion Peairs and Ralph Howard Davidson, just issued by John Willey & Sons, Inc., at $8.50, has been brought up to date by the inclusion of data on 60 more pests and additional material on control measures and new chemicals. The 661 pages are illustrated by 577 sketches and plates and include a 35-page index.

JERRY S. GROSS has established a new company, J. S. Gross & Co., Cherry lane, Huntington, Long Island, N. Y., for the wholesale distribution of horticultural supplies, plants, bulbs, seeds and cuttings.

ORGANIZED recently was Noens Evergreen Gardens & Nursery, 1003 West Bryan, South Bend, Ind. The proprietors, Paul and Elizabeth Noens, state they have purchased the complete stock of Evergreen Gardens, Roachdale, Ind., from Leonard Witt and will grow both evergreens and shade trees for retail trade

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Let's Have More Accurate Plant Names in Trade Lists

By Robert E. More

Plant names have ever been troublesome. The greatest botanists differ with each other; they even differ with themselves. Many names and authorities sponsored by Alfred Rehder in the second edition of his "Manual of Cultivated Trees and Shrubs" (1940) are changed in his later "Bibliography of Cultivated Trees and Shrubs" (1949). Names of clones (plants propagated vegetatively) are in even greater confusion. Clonal offerings are rapidly increasing yearly, so that the confusion in nomenclature gets worse instead of better.

According to the international rules of botanical nomenclature, no plant can have a valid name unless it has been accurately described in a proper publication and given there a Latin name setting forth genus, species and variety, if it is a variety. This is seldom done satisfactorily except by a trained botanist. Few clonal names have ever met these requirements. Abstractly, a clone should not be dignified with a separate Latin name. Being propagated by cuttings, grafts or layers, only one plant is involved, not a genus, species or variety. A clone's name should, therefore, be "a noun appended to the botanical or vernacular group name of the plant in question." (Rehder, "Bibliography of the Cultivated Plants," page XI.) For example, Juniperus scopulorum Hill Silver.

Juniper Example

The ubiquitous and useful Pfitzer juniper should, therefore, have been named Juniperus chinensis Pfitzer. It not only is propagated vegetatively, but it can be propagated no other way. Most junipers have male flowers on one plant and female flowers on another. The original Pfitzer was a male plant. It can, therefore, never be grown from seeds. Furthermore, it probably originated as a sport in a nursery, not as a wild mutation. But the name Juniperus chinensis pfitzeriana has been accepted since 1889, and the persistence of botanists is such that the more appropriate noun name will probably never be employed in scientific texts.

The nurseryman who develops and offers new, different and valuable clones (and they should not be foisted on the buying public unless they are different and valuable) should endeavor to ascertain the proper genus and species and then add one descriptive noun, or at the most, two nouns: Juniperus scopulorum Gray Gleam, Pinus flexilis Glenmore. (It is less cumbersome if quotation marks around the noun name are omitted, as suggested by "Standardized Plant Names.") Calling it Glenmorei not only adds no merit to the tree, but violates the international rules of botanical nomenclature. And, finally, Mr. Nurseryman, please, when you adapt a name, stick by it! Certain nurseries have changed names of a given clone again and again.

Technical Names Proper

So much for your own new yew, juniper or arborvitae. But how about the old, standard plants your catalog offers? It is proper to give technical names. Accuracy is promoted. Popular names are different in every country and often in different localities in the same country. In the United States the eastern poplar is the western cottonwood. But populus is the same throughout the world. Every nurseryman who puts out a catalog or trade list should own a copy of "Standardized Plant Names" or "Hortus Second." He should use one or the other when making out his lists and advertisements. If he cannot afford his own copy, one is available in every city library.

Wrong Descriptions

The extent of the inaccurate and confusing misuse of horticultural names that is current in trade lists is shown by just a few of the following misdescriptions.

"Juniperus glauca hetzi" should be either Juniperus chinensis glauca hetzi or Juniperus chinensis Blue Hetz. There is no juniper species called "glauca."

"Arizona Cypress Gareii" should be either Cupressus arizonica garei (or, better still, Cupressus arizonica Gare) or Gare Arizona cypress. Using part technical and part popular name together is wholly wrong. Use one or the other.

"Taxus hicksi" should be Taxus media hicksi.

"Abies douglasi" should be Pseu-

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dotsuga taxifolia glauca or Pseudotsuga menziesi glauca. (The latest check list of the forest service has changed this name again! See agriculture handbook 41. The Douglas fir is not a fir.)

"Juniperus Andorra plumosa" should be Juniperus horizontalis plumosa, or Andorra juniper. Again a jumbling of a technical and a popuar name. And the technical part is inaccurate besides.

No "Glauca" Species

"Glauca juniper." There are a hundred blue or glauca junipers, but there is no juniper species named "glauca," as previously stated. The name is meaningless.

"Juniperus hibernica fastigiata" should be Juniperus communis hibernica fastigiata.

"Juniper stricta," accurately, should be Juniperus chinensis pyramidalis. It is usually inaccurately listed in the trade as Juniperus excelsa stricta. See Wyman, "Trees for American Gardens," page 200.

These are but a few of the inaccurate and sometimes wholly blind designations found in most trade lists. The average retail nurseryman would not be interested in a "glauca juniper"; he would not know what he was getting. It is not good adver-

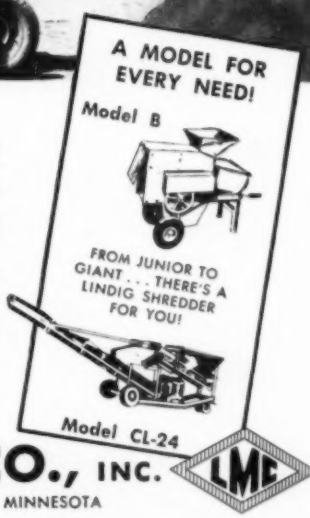


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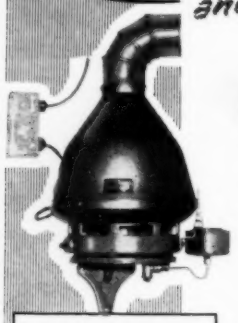
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tising, therefore. It is more serious than that, however. Under modern state legislation making a nurseryman liable in damages if his stock is improperly labeled, accuracy becomes imperative.

In conclusion, I direct a question to Dr. Richard P. White: Might the American Association of Nurserymen have a department of nomenclature from which a member who did not own or have available a copy of "Standardized Plant Names," or Bailey's "Hortus Second," or Rehder's "Bibliography of the Cultivated Trees and Shrubs," or Rehder's "Manual of the Cultivated Trees and Shrubs," could, for a modest fee, get help on his trade lists?

PLANT SCREENS FOR TANKS

Numbers of new homeowners do not have access to public gas facilities and therefore must operate their gas appliances from supplies in cylinders installed on the premises. To overcome any objections homeowners might hold on the score of unsightly tanks, the Pyrofax Gas Corp. has prepared for distribution to users and distributors of its product an illustrated booklet that contains some practical suggestions for making gas storage areas more attractive through the use of architectural features, landscaping or a combination of both. Materials needed and approximate costs therefor are given for several plans. The American Association of Nurserymen has cooperated in the project by supplying lists of recommended screening plants for each of five areas in the United States.

Nurserymen who believe they could utilize the booklet in seeking planting orders should write for the data to the Pyrofax Gas Corp., 295 Madison avenue, New York 17, N. Y.

MARRIED April 14, the former Miss Floride Pollard and Leo B. Scott, Spartanburg, S. C., executive secretary of the Southern Nurserymen's Association, went to Bermuda for their honeymoon.

LEISERLAND, Bellingham, Wash., has been purchased from Mrs. Frances M. Leiser by Mann and Beverly Leiser, who plan to add more greenhouse space this summer and to enlarge the present florists' and nursery shop to carry in addition a complete line of garden machinery and accessories. For the past two years Mann Leiser was manager of the Palmer Nursery, in the Matanuska valley, Alaska.

TREE MAINTENANCE

By Noel B. Wysong

SMALLER TREES FOR STREETS

Anybody can plant a tree. However, unless the planter has enough knowledge and foresight to base his selection of species on site conditions, he is likely to be planting the seeds of trouble when he covers the tree's roots. This is especially true with respect to street tree planting.

A recent issue of a park magazine carried a report to the effect that the park department of one of our medium-size cities planned to include in its next budget an appropriation of $10,000 for repair of sidewalks that had been broken by tree roots. This is one city of many where such repairs undoubtedly will be made. One can only guess as to how much is spent annually by all the cities of the country on such work; I venture it is a staggering sum. This kind of costly trouble can be charged directly to poor judgment, lack of professional skill, in the selection of species at the time of planting the streets.

Any tree which, at maturity, reaches a height of 75 to 100 or more feet grows big, too, in trunk diameter. As the tree increases in size, buttress roots develop; they, also, must grow big to anchor the tree in the soil and protect it against wind throw. A tree that is 30 inches in diameter at breast height may measure 5 or 6 feet across at or just below the ground line, due to heavy buttress root growth. Any obstacle, including a sidewalk, that tends to impede such growth will be pushed aside.

Potential Trouble

Seldom do city tree lawns, or parkways—the distance between curb and sidewalk—exceed six feet in width. Often it is considerably less—tree lawns two to three feet in width are common. Is it not evidence of poor judgment to plant large-growing trees such as elm, maple, sycamore and the like in such cramped space? Is not the plantsman just asking for trouble when he does so?

Nor is the upheaval of sidewalks the only trouble that results from planting large-growing trees along city streets. Other problems that inevitably develop include provision for clearance of overhead utility wires, pruning to remove dead and damaged branches for the safety of

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PROPAGATION OF PLANTS, by Kains and McQuesten. Nursery and greenhouse reference. 637 pages, **$5.00.** American Nurseryman, Chicago 4, Ill.



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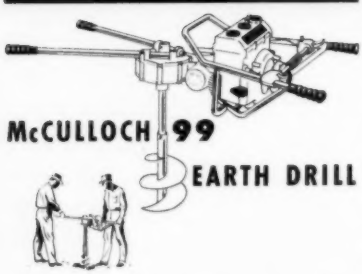
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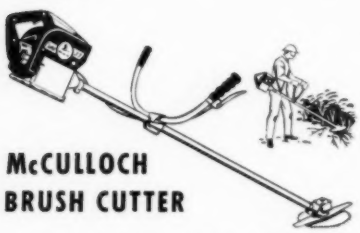
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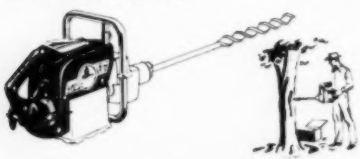
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passers-by, spraying to control diseases and insects, annual removal of an overabundance of leaf litter from the streets and the cost, ultimately, of removing a large dead tree. All trees need maintenance, of course, but the amount required and the costs thereof are multiplied when species are planted in sites unsuitable for their growth habits.

The planting of large-growing trees along city streets without due regard for such factors as width of parkway or the width of the street itself might have been excused 50 or 60 years ago. At that time professional guidance in city planning with respect to tree problems was not generally available. Nor did nurserymen grow a great variety of tree species. Then, more often than not, street tree planting resulted from the action of some civic-minded group or individual who simply liked trees. And usually, it would seem, the larger-growing species were best liked. Today's taxpayers are footing the bill for that well-intentioned but unguided enthusiasm.

Errors Continue

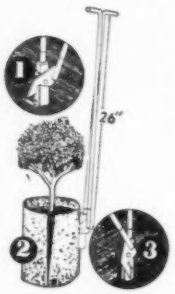
Experience is said to be the best teacher, but in this case the teacher appears to be falling down on the job. For the planting mistakes of half a century ago are still being made in many cities. In new subdivisions with conventionally narrow parkways, large-growing trees are still being planted, often two trees to a 50-foot lot. I have been informed that in one city it is planned to plant elms and maples along a street with a parkway strip only 19 inches in width.

There is no longer any excuse for such errors in planting. Professional advice is abundantly available, and nurserymen are propagating such a variety of trees that selection is not limited to a few species. In city plantings, big trees always will have a place in the parks, recreation grounds and along broad avenues and wide streets where there is ample room for them to grow. In such locations they belong; there they develop a majestic beauty that never can be achieved by trees of lesser stature, but however fitting and proper their use is in such areas, it does not follow that they should be planted where growing room is limited.

Seek Harmony in Scale

Wherever trees are planted they become a part of the man-made landscape design, and in designs of high quality, of professional caliber, all components harmonize in all respects, including that of size. With relation to the planting of streets,

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the components of the design which must be considered include the width of the street, the width of the parkway and sidewalk and the size and character of the buildings that front on the street. Obviously, a row of trees 75 to 100 feet tall would dwarf the low, ranch-type houses so popular today; they would be equally out of scale with the narrow streets of the typical residential subdivision.

The smaller-growing trees, those that range from 25 to 50 feet in height at maturity, are the answer to street planting problems where growing room, both above and below ground, is restricted. In some cities they have been used effectively. There is not much doubt that they will increase in favor, for economically and aesthetically their use is sound.

CANADA SHADE TREE MEET

At the annual meeting of the Canadian chapter of the National Shade Tree Conference held recently at the La Salle hotel, Kingston, Ont., the following slate of officers was elected:

F. R. Peden, Lachine, Que., president; A. Sellers, Toronto, Ont., first vice-president; H. L. Crissinger, Shawinigan Falls, Que., second vice-president; C. H. T. Lowe, Ottawa, Ont., membership chairman; J. L. Huc, Montreal, Que., organization chairman; F. E. Martin, Toronto, local chairman for the 1956 national conference committee; T. W. Thimson, Toronto, publicity chairman; George Bell, Toronto, chairman, conference welcome committee, and Cedric G. Dobbin, Toronto, re-elected, secretary-treasurer.

No speakers were scheduled at the meeting. Committee reports were given, and the main discussion centered about plans for the national conference to be held August 20 to 24 at the Royal York hotel, Toronto. A program was formulated, and names of speakers were suggested. The conference chapter members also discussed means to increase the membership.

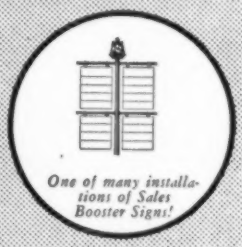
Members observed a moment's silence in tribute to Owen Hawkey, 1955 president, who died this past year. L. C. K.

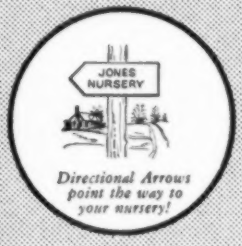
KOEHLER BROS., INC., a new landscaping company recently formed by George, Emmett and Fred Koehler, is located west of West Lafayette, Ind., on state road 26. The Koehler brothers formerly managed the Wabash Valley Nursery.

G-5

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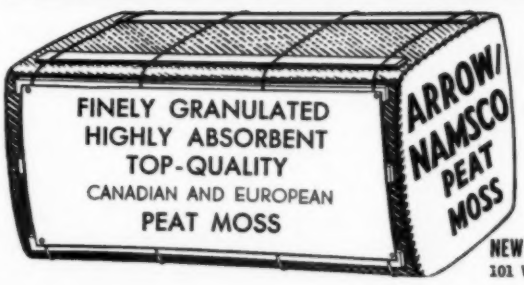
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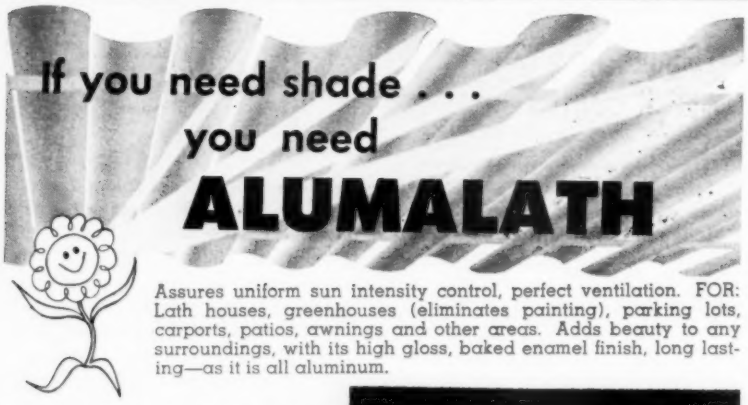
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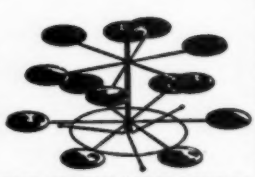
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Black Magic; Plant ties and twine;
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STAN SAYS

Taxus Media Hicksi

The name of a great plantsman—Henry Hicks, Westbury, Long Island, N. Y., will be perpetuated for many years by a yew discovered in his nursery. That yew is Taxus media hicksi. Back in 1920, I was fortunate in being associated with Hicks Nurseries, Inc., for a short time and I became acquainted with Henry Hicks and also the present president, Edwin H. Costich, both men being plant experts. I realized how valuable any catalog coming from such a combination of talent could mean to me in later years, so I collected several Hicks' catalogs and had them bound for my library. The other day, after I had written an article on the Hicks yew, I decided to see if I could do a little detective work and find out when this yew was first cataloged by Hicks'. My search was fruitful, as the following paragraph will indicate.

Home Landscape, 1924, is the title of the handsome, 80-page catalog put out by the Hicks Nurseries, Inc., the first catalog in which is listed and illustrated Hicks' Japanese yew (Taxus media hicksi). The catalog states, "A new variety destined to be popular for its interrogation point form, dark color and hardiness. We discovered it among thousands of seedlings of an old plant in Chas. A. Dana Arboretum, Glen Cove, Long Island, which is now thirty feet wide and almost as high." This catalog priced plants 1 to 1½ feet at $5 each. Another statement (in fine print) in the same catalog says, "Taxus cuspidata hicksi which was raised from the seed we collected twenty years ago," and on the same page, Mr. Hicks refers to Taxus media hicksi and then to Taxus cuspidata hicksi.

Taxus Hedges

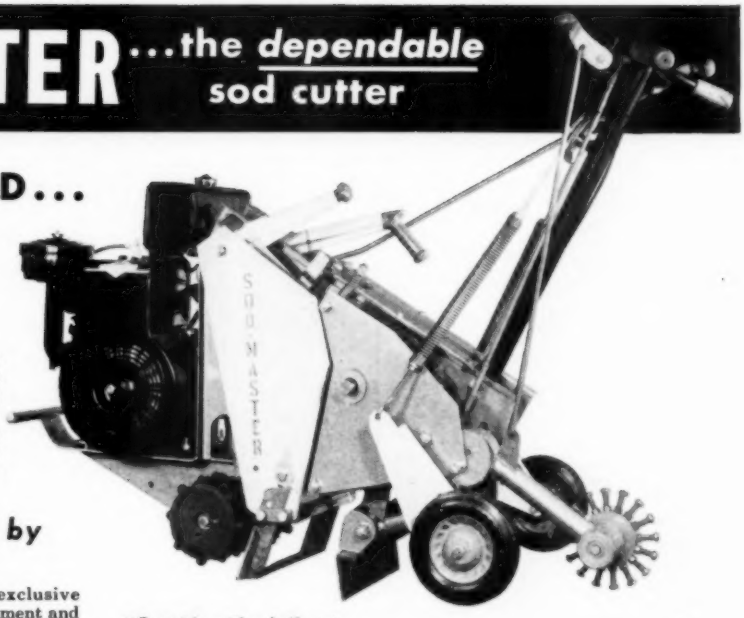
As most landscape architects and nurserymen know, Taxus hicksi makes an excellent hedge that requires little trimming. I have planted quite a few hicksi hedges myself and I have also measured the plants in some of these hedges. The Kallay hicksi hedge on East Madison avenue, Painesville, O., which I measured August 12, 1955, I found was 45 inches high and 42 inches wide at the top; the plants, evidently small when set out, were 10 to 12 inches apart in a single row. This hedge has attracted attention for many years. The Heinz hicksi hedge, situated at the top of a high hill in suburban

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Pittsburgh, is 48 inches high and 33 inches wide, and the plants, planted when 18 to 24 inches tall, are on 25-inch centers. The trench was dug 22 inches deep and 34 inches wide. In the case of the Crawford hicksi hedge, transplants were set on 12-inch centers. In the fall of 1953 I planted some hicksi that was over 24 inches high and skinny; I set the plants on 14-inch centers.

Generally when I plant 24 to 30-inch hicksi that is full, having been trimmed often in the nursery, I set plants on 19 to 21-inch centers. I always want a small space between plants and let the plants close in themselves. In Taxus hicksi, the height means little to a buyer unless he knows how heavy—bushy—the plant is. Size of the ball is an important factor. A large ball is always worth 50 cents more per plant. A yew does not have too many roots at best, so that a larger ball helps a lot in checking the shock of transplanting.

In planting, make sure that the wide side of the plant is parallel to the length line of the hedge. See that plants with long shanks are set a little deeper than they were in the nursery. Never prune the tops until you are through planting; then even them off. After I have a plant fully set and before I cut the burlap (I do not take it off) and turn it down, I fertilize the yew. This is the last time to get the plant food down where it will do the most good. If I have good fresh cow manure on hand, I use that instead of a commercial plant food. The customer should be told to give the tops of the yews a quick shower in dry spells the first year after transplanting. This could be done every night in hot, dry weather. The ground itself should be soaked twice a week unless the weather is cool.

In Ohio and western Pennsylvania, Taxus hicksi is a standard item and is grown in large quantities. It rates tops with me for more reasons than one. In trucking, for instance, one can really load a truck so there is no waste space. However, there are other good upright types, such as hatfieldi, which is heavier than hicksi; Moon's columnaris, which makes a heavy,

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upright hedge, and Taxus media brevimedia, a heavy, upright type that I like much, and these do not complete the list.

One eastern yew specialist grows his hicksi to one leader and feeds his yews with chicken manure. A Painesville, O., grower trims his hicksi so tight that one can almost sit on them; of course this latter type has several leaders.

Dirty Trees

Five of our dirtiest ornamental trees—they thrive here in Pittsburgh—are:

Plantanus acerifolium (orientalis), London plane tree, incorrectly called Oriental plane, drops small branches or twigs almost every week of the year. Either wind or snow breaks off these dead branches. The tree sheds its bark once a year—on the hottest day of the summer—and the bark has to be picked up. The button balls (seeds) fall in March and create dirt.

Ulmus pumila, Chinese elm, continually drops small, delicate twigs, which must be raked up. An unusual point in favor of this tree has been given by a bird enthusiast, who says orioles build their nests in this tree.

Liquidambar styraciflua, sweet gum, is no doubt the least dirty of the five trees. I had always considered it an excellent tree until one of my customers reported it was a dirty tree, her chief complaint being about the numerous seed pods.

Salix salamoni (sepulcralis), Solomon weeping willow, may be all right in the country or on a slope which is not kept raked and clean, but on a city lawn, it is a tree whose everfalling twigs, branches and leaves make it an unfortunate choice. Its rapid growth makes it a tree for quick shade, and possibly one can overlook its being dirty if one has no other tree under which to sit on a hot summer day.

Aesculus hippocastanum, horse chestnut, is the fifth on the list. About 50 years ago many horse chestnut trees were planted in the Pittsburgh district, evidently for the attractive flowers; however, it is the horse chestnut that makes this tree most undesirable. Children gravitate to the trees in the fall so that they can gather horse chestnuts. The children throw stones and other objects into the trees in order to dislodge the horse chestnuts. If a horse chestnut tree has the leaf blotch, one should be sure to burn all the leaves.

One should not only list the dirty trees but should also recommend the good trees. We recommend English elm, pin oak, small-leaved European

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linden, sour gum (my favorite); thornless honey locust (patented or selected strain), Norway and sugar maples and ginkgo (use male trees only and do not overfeed or you will encourage erratic horizontal growths). Small branches of the ginkgo with leaves "shaped like a duck's foot" will make a floral bouquet and last six weeks in water.

LANDSCAPE DATA

Three bulletins in its miscellaneous series, issued recently by the cooperative extension service of the Michigan State University, East Lansing, form a reference group for any persons interested in landscape work and its promotion. All are usefully illustrated and attractively prepared.

Circular E-1, of 32 pages, is titled "Landscape Planning for Rural Homes." This publication is directed to those who are first building in the country, returning to rural life, remodeling or relocating on a farm. It suggests the factors to be considered in choosing a site, outlines an approach to planning the selected site, points out important factors in use areas, stresses the importance of correct planting materials, touches on arrangement of materials, plant and otherwise, and provides a reading list of books and publications for extensive study of the problem.

Circular E-2, "Landscape Planning for Residential Properties," 24 pages prepared by D. Newton Glick, of the department of landscape architecture and urban planning, is replete with interesting and instructive sketches by the author. Here, too, site selection factors are itemized, the value of qualified advice is stressed as general points are presented, primary property divisions are indicated, pointers are given for improving the basic plan and four pages carry data on plant selection.

Circular E-3, "Ornamental Vines for Michigan," by Carl S. Gerlach, associate professor of landscape architecture and urban planning, is a 16-page production, one of a series on ornamental plants opening with a dissertation on the uses and types of vines and vine supports. A map of hardiness zones for ornamental vines in Michigan precedes a descriptive listing of more than a score of top-ranking items, further separated into lists for special purposes.

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ABSTRACTS
OF RECENT RESEARCH

ROSE SEED GERMINATION

Although it is now known that a cold but not freezing location in the fall, followed by warmer greenhouse conditions after germination starts, will greatly speed up the germination of rose seeds, little published work exists on the effect of various germination media. Roy E. Sheperd, Medina, O., presents his results with 18 different media in the 1954 Yearbook of the American Rose Society.

Rosa multiflora seeds selected from a single isolated bush were used in the tests, and it was presumed that these seed lots were therefore uniform. Twenty seeds were planted in each of 18 plots, in flats.

Flats were kept at 45 degrees Fahrenheit until the first seedlings appeared 22 days after planting and were then moved to the greenhouse. Lack of food in some of the media soon became apparent, but no fertilizer was applied to any of the treatments. The media and results were as follows:

(1) One-year-old coarse beech sawdust; germination 60 per cent; quality poor; required frequent watering; seedlings removed easily without injury to roots.

(2) Finely ground Canadian peat moss; the first to germinate; final germination 90 per cent; quality good; retains moisture; seedlings removed easily.

(3) Sterilized clay loam soil; germination slow; but seedlings sturdy and vigorous; germination 55 per cent; moderate moisture retention; some injury to roots in transplanting.

(4) Equal portions, by volume, of soil and peat moss; results comparable to No. 3, but easier to transplant.

(5) Equal portions, by volume, of sand and peat moss; considerable range in vigor, but most of the 16 that germinated were acceptable; moderate moisture retention; removal easy.

(6) Equal portions, by volume, of sawdust and peat moss; germination 50 per cent; quality poor; the most unsatisfactory of all.

(7) Equal portions, by volume, of sand and sawdust; somewhat better quality than No. 6, but not greatly superior; germination 50 per cent.

(8) Equal portions, by volume, of sand and clay loam; germination 70 per cent; quality fair; moderate

moisture requirements; removal fairly easy.

(9) Equal portions, by volume, of sawdust and soil; the highest germination, 95 per cent; plants sturdy; medium moisture retention.

(10) Equal portions, by volume, of soil, sand and sawdust; germination 85 per cent; well-developed root systems, but tops lack vigor; transplanting not difficult.

(11) Equal portions, by volume, of soil, sand and peat moss, with a small amount of commercial fertilizer added; best color and root system; germination 60 per cent.

(12) Equal portions, by volume, of sand and peat moss with added commercial fertilizer; appearance comparable to No. 11, but germination slightly better and transplanting easier.

(13) Vermiculite; germination 90 per cent; root system poor and foliage color poor; exceptional moisture retention.

(14) Equal portions, by volume, of sand and vermiculite; very unsatisfactory, both in root development and plant vigor, but easy to transplant; germination 85 per cent.

(15) Shredded sphagnum moss; germination 85 per cent; moisture retention good; transplanting easy; quality fair.

(16) Medium No. 4 below seeds and medium No. 15 above; very high-quality seedlings that were somewhat more difficult to transplant without root injury than No. 15; germination comparable.

(17) Cinders run through a ¼-inch sieve and thoroughly leached; seedlings compared favorably with No. 5 and were easily transplanted; medium required daily watering.

(18) Equal portions, by volume, of sand and cinders; results similar to No. 17.

Media numbers 2, 4, 5, 8, 9, 10, 11, 12, 15 and 16 were considered satisfactory from this single test. It is emphasized that high germination and easy removal for transplanting are both of great importance. C.

ROOTING RIBES ALPINUM

The results of rooting tests with Ribes alpinum under mist during the summer of 1955 have been reported by Harold F. Wilkins and J. R. Kamp, department of horticulture, University of Illinois, Urbana, in the Illinois State Florists' Bulletin, No. 165.

Two separate trials were made, with 10 replicates of 20 cuttings each for every treatment. All results were analyzed statistically. In all cases, the cuttings were eight inches

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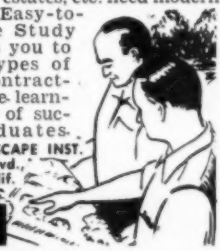
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long and of new growth that had just reached maturity.

The first trials were inserted in the cutting benches June 24 and removed July 26, 32 days later. The treatments were as follows: (1) Intermittent mist, no hormone, (2) intermittent mist, Quickroot No. 1, (3) constant mist, no hormone, (4) constant mist, Quickroot No. 1.

Where intermittent mist was used, nozzles were Florida T-type with an electronic leaf control. Monarch nozzles were used for constant mist. All cuttings were rooted without protection in an unshaded greenhouse.

In this and the second test, cuttings were judged excellent, good, fair, poor, no roots and dead. Any cuttings showing signs of rot were considered already dead. Any classed as having no roots were still in excellent condition and apparently would have rooted if given more time. All in the three best classes were well enough rooted for immediate planting.

Results of First Trials

Out of the 200 cuttings in each group, the following number were sufficiently well rooted for immediate planting. Intermittent mist, no hormone, 113; intermittent mist, Quickroot No. 1, 84; constant mist, no hormone, 99, and constant mist, Quickroot No. 1, 133.

Statistically, there was no significant difference between the first and third treatments. The test showed that with no hormone powder at this time of the year, cuttings rooted as well with constant as with intermittent mist.

Differences in results of the two groups rooted under constant mist appear quite large, but again they had no significance statistically. The tests showed that if hormones are used, constant mist is better than intermittent mist at this time of the year. This is not out of line with other results reported on mist propagation during the heat of the summer.

Second Trials

The second trials were made August 1 and removed September 12, 43 days later. Treatments were as follows: (1) constant mist indoors, (2) intermittent mist indoors and (3) intermittent mist outdoors.

The same nozzles and controls were used as mentioned previously, and there was no shade over the cuttings either indoors or outdoors. Of the original 200 cuttings per treatment, the numbers sufficiently well rooted for immediate planting were: Constant mist indoors, 12; in-

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termittent mist indoors, 120, and intermittent mist outdoors, 190. Thus, at this time of the year, intermittent mist was much better than constant mist. For best results, rooting should be done outdoors, but satisfactory results can be obtained indoors. No hormones were used in the August propagation, and rooting percentages might have been increased by their use.

It was pointed out that the time required for rooting at the later propagation was increased. This is reported as typical of softwood shrub cuttings where early summer cuttings are recommended. C.

FIRE BLIGHT CONTROL

Control of fire blight of Forelle pears with antibiotics at Hood River, Ore., was reported by Jess R. Kienholz, of the United States Department of Agriculture, in the Plant Disease Reporter, Volume 39, No. 3.

In this test 60 trees of the Forelle pear variety were used. The plots were arranged in six replicates of paired trees, which received the following treatments: (1) Check plot received no blight sprays; (2) zineb, 2 pounds to 100 gallons of water; (3) a mixture of streptomycin at 100 parts per million and terramycin at 10 ppm; (4) a soluble form of streptomycin sulphate at 100 ppm, and (5) streptomycin nitrate at 100 ppm.

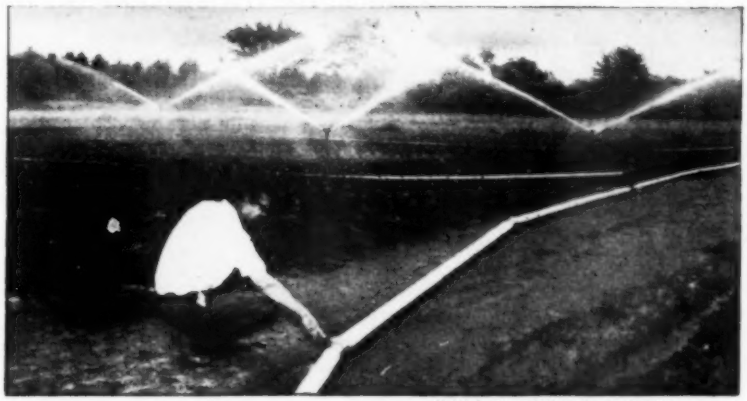
The orchard owner was also furnished enough material of a relatively insoluble form of streptomycin sulphate to spray 70 trees four times.

The test plots were sprayed five times. The first application was made April 23 when the trees were in about 80 per cent full bloom and continued at approximately 10-day intervals until June 11. A hand gun was used at a pump pressure of 500 pounds per square inch from a small portable spray rig.

In contrast to Bartlett pears, in which most of the infections occur through blossoms, infections commonly occur in Forelle pears directly through young leaves and tender twig tips. The infections on Forelle usually do not heal at the joints on lateral branches, which is common in Bartlett, and unless infections are promptly and carefully eliminated the whole tree may become involved.

The first blight infection was discovered in the test plots on May 25. New infections were cut out of the trees 12 times between June 2 and September 14. Average numbers of blight infections per tree for the

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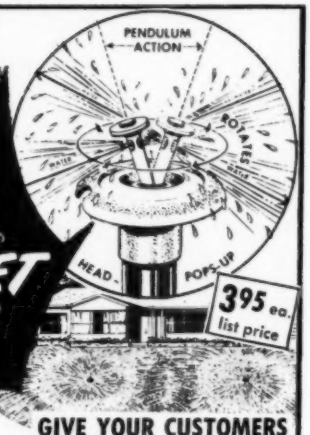
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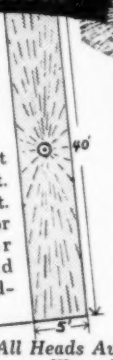
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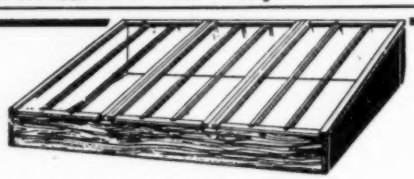
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various treatments were: Unsprayed check, 10.75; zineb, 10.75; streptomycin-terramycin, 0.83; streptomycin sulphate (soluble), 0.33; streptomycin nitrate, 0.16; streptomycin sulphate (insoluble), 0.44.

These tests indicate that antibiotic sprays are highly effective in controlling blight on the extremely blight-susceptible Forelle variety. No fruit injury and only traces of a leaf chlorosis were produced on Forelle pear trees by the antibiotics, whereas copper sprays have previously caused severe fruit russet on this variety. The four different formulations of streptomycin performed equally well when used at the 100 ppm rate.

It has been difficult to raise Forelle pears in many districts because of their extreme susceptibility to blight. Since Forelle fruit often returns a high profit, antibiotics may offer a practical means of blight control for the variety. D.

BROWN PATCH CONTROL

A small-scale but well-controlled experiment by M. C. Shurtleff of the Rhode Island agricultural experiment station, Kingston, gave some promising leads on chemical treatments for turf brown patch control. The work as reported in Phytopathology, volume 45, No. 3.

Four grasses, Astoria colonial bent, seaside creeping bent, Kentucky bluegrass and creeping red fescue, were grown in soil in quadrants within the same 4-inch pot. Fifty milliliters of each of 38 chemical solutions were poured on each of 10 consecutive days on the soil surface of four replicated pots, starting when seedlings were ½ to ¾ inch tall. The day after the final treatment, the foliage was sprayed with a ground mycelial suspension of Rhizoctonia solani, the causal fungus of brown patch. Pots were incubated in a saturated atmosphere of 75 to 85 degrees Fahrenheit for 48 hours, and disease readings were made two days later.

Dichlone and 8-hydroxyquinoline sulphate gave better than 95 per cent control compared with water checks. Thiram and endomycin provided 90 to 95 per cent control; captan, 8-hydroxyquinoline benzoate and cupric maleic hydrazide, 75 to 90 per cent, and manganous maleic hydrazide, 50 per cent. Disease symptoms were reduced by 21 other chemicals.

The soil of five 2-inch colonial per cent 20 days after treatment. D. thiram, both 8-hydroxyquinolines, dichlone, mercury chloride, cupric



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maleic hydrazide and water. Results of inoculations 0, 2.5, 5, 10, 20 and 40 days after treatment indicated that effectiveness decreased with time. Thiram and cupric maleic hydrazide inhibited brown patch 50 per cent 20 days after treatment.

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NEW BULLETINS

GYPSY MOTH

United States Department of Agriculture publication PA 285 on the gypsy moth and methods of fighting it is a folder giving briefly the facts of the pest's introduction into the United States, its spread through New England and part of New York, the nature of the damage inflicted on trees by the moth and information on control programs and methods and federal and state quarantines. Illustrations show the four life stages of the pest, oak trees defoliated by moths and methods of spray application, by airplane and mist blower.

CHESTNUT BREEDING

For 25 years intensive chestnut breeding to develop a blight-resistant strain has been under way in Connecticut and at the Beltsville experiment station of the United States Department of Agriculture, in Maryland. The program had its beginning in Connecticut in 1931, when seedlings from selected nuts were set out on the Sleeping Giant plantation at Hampton, Conn., which, since 1947 has been under the management of the Connecticut agricultural station. A description of the breeding work and an evaluation of the findings form the content of circular No. 192 of the station, issued early this year.

All factors considered, progress has been satisfactory, it is stated by the authors, Hans Nienstaedt and Arthur H. Graves. Promising hybrids —crosses between Chinese and American chestnuts and Chinese and American-Japanese hybrids — have been obtained. The work has reached the point where the planting of Chinese chestnut as an orchard crop or as a source of game food in the woods can be considered. Further large-scale testing will be necessary before release of the new types for forest planting.

PEACH PESTS

"Insect and Mite Pests of Peaches in Ohio," research bulletin 768, of the Ohio agricultural experiment station, Wooster, O., is designed to supplement a service bulletin on spraying programs and pest control for commercial fruit crops. Because many newer insecticides have such specific action, recognition of insects

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and the damage they cause is important in selecting the proper insecticides for control. Bulletin 768 describes and illustrates the major peach insect and mite pests and their damage. Although the bulletin was prepared for Ohio peach growers, it may be of interest to those in neighboring states, since some of the information has not previously been published.

CAMBRIAN NURSERY, San Jose, Calif., is planning to build a 1,152 square foot store and 5,400 square foot lath house.

DAMAGED as a result of an automobile accident in which a telephone pole was toppled, a nursery operated by Jack Burgi at Novato, Calif., was forced to close temporarily. One wall of the nursery building was ripped open, and plants and office equipment were demolished.

R. W. FARRELL, president of the Adirondack Tree Farm, Inc., Emmonsburg, N. Y., is starting the seventh year of nursery operation, growing evergreens, both ornamental stock and Christmas trees, on 650 acres. The firm is starting seedbed operations this spring, and plans call for production of about 1,000,000 seedlings a year.

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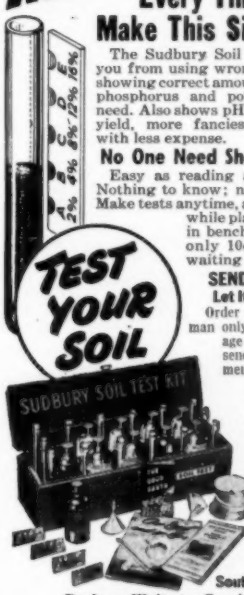
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PLANT PATENTS

The following plant patents were issued recently, according to Rummler, Rummler & Snow, Chicago patent attorneys:

No. 1457. Rhus cotinus plant. Roger Crompton Notcutt, deceased, late of Woodbridge, England, by Maud H. Notcutt, executor, Woodbridge, assignor to John J. Grullemans, Cleveland, O. No descriptive claim.

No. 1458. Rose plant. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by its abundant foliage which covers the plant well, its prominently urn-shaped buds, its longer than average flowering stems, its large blooms, the large size and relatively broad individual petals of its blooms, with the petal shape similar to that of the variety Red Jacket (plant patent No. 968), the good petal substance approaching that of the variety Red Jacket, with attendant long-lasting quality of the bloom color, and the distinctive color of the blooms varying between medium and dark tones of red.

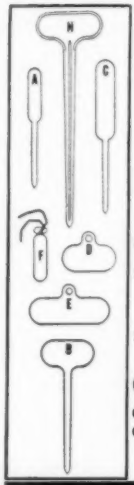
No. 1459. Rose plant. Michele Malandrone, Oakland, Calif., assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the climber class, characterized particularly as to novelty by its free-blooming habit and consequent tendency to bear flowers from the top of the plant all the way to the ground, its free production of flowers intermittently throughout the growing season, the relatively large size of its flowers and the distinctive Thulite-pink general color tonality, lightly overcast with cameo pink, of its flowers.

No. 1460. Rose plant. Thomas Edison Motose, Fairport, N. Y. A new and distinct variety of rose plant of the hybrid polyantha class, characterized as to novelty by the general appleblossom coloring of its flowers; by the long-lasting quality of the flowers, which reach their most beautiful stage when fully opened; by the plant's recurrent or continuous blooming habit, and by the absence of thorns from its canes, branches and stems.

No. 1461. Chrysanthemum plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark, a corporation of New York. A new and distinct variety of mum plant of the decorative type, characterized particularly as to novelty by the relatively large size of the plant; its vigorous and upright growth; its relatively long flowering stems; its custer habit and relatively large size of the flowers on each stem; the distinctive apricot-yellow color, lightly overcast with apricot-red general color tonality of its half-open buds, and the grenadine-red lightly overcast with bittersweet-orange general color tonality of its open flowers and the spicy fragrance of the flowers.

No. 1462. Chrysanthemum plant. Eugene S. Boerner, Newark, assignor to Jackson & Perkins Co. A new and distinct variety of mum plant of the decorative type, characterized particularly as to novelty by the irregular, rounded serru-

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lations of its foliage; its early-blooming habit, and its large, unfading red flowers.

No. 1463. Rose plant. Walter E. Lammerts, Livermore, Calif., assignor to Consolidated Nurseries, Inc., Tyler, Tex., a corporation of Texas. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by its vigorous and upright habit of growth; its leathery and semiglossy foliage of medium size, which abundantly clothes the plant; the distinctive, heavy tinge of garnet-brown color on the young shoots and foliage; the long urn shape of its buds and their long clasping sepals; its abundant production of flowers that are usually borne singly on long cutting stems; the distinctive and unique general color tonality of the buds, from chrysanthemum crimson to Indian Lake, and the unusually distinctive general color tonality of the newly opened flowers, from vermilion to scarlet, later becoming from camellia rose to sulferino purple in the mature flowers.

No. 1464. Rose plant. Edward J. Webber, Missoula, Mont. A new and distinct variety of rose plant, characterized as to novelty by the outstanding striped markings; by its lasting qualities due to clinging of petals; by its habit of free blooming, due to more breaks; by its perfect response to date setting, and by its resistance to mildew.

EASTERN LILAC FESTIVAL

Unseasonable weather greatly hampered planning for the annual lilac time festival at Rochester, N. Y. Cold weather retarded the opening of the flower buds, but it was nevertheless anticipated that the blooms would be at the height of their beauty approximately the third week in May, the usual period of the festival.

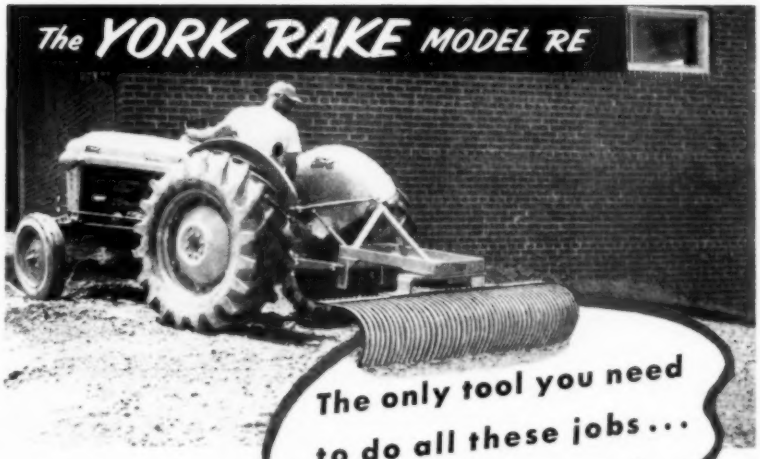
All the festival events this year will be given in the Highland park bowl, where for the past three years the "Opera under the Stars" was held. There will be a feature each night of the festival, the program including a night of symphony music, one of band music, one of singing and a pageant, "Lilac International."

This year visitors to Rochester will be able to see more than 500 varieties of lilacs, ranging from white to deep purple, and over 1,500 shrubs and bushes. Estimated attendance for the festival approaches 300,000, the visitors coming from almost every state, as well as Canada and Mexico.

CANADIAN NOTES

At the recent home show at Toronto, Ont., a magnificent typical Canadian spring garden was displayed. It was installed by Sunnybrook Nurseries and was aproximately 30x80 feet. In the garden were birch trees; golden chain trees, both weeping and bush; a variety of French lilacs; double-flowering plums in tree and shrub forms; double-

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flowering cherry; flowering crabs; evergreens, and petunias, tulips, daffodils, roses, hydrangeas, begonias, etc. The grass lawn was from seeds sown in the space a few days before the show.

John J. Snor, president and founder of the Holland Bulb & Nursery Co., Port Credit, died suddenly at the age of 69 in Mexico City, Mexico. Born in Utrecht, the Netherlands, Mr. Snor came to Canada 40 years ago with his wife and daughter. He lived in Hamilton and in Bradford, Ont., before he founded his firm 10 years ago.

President A. B. Luke, in a joint statement with E. T. Banting, general convention chairman, announced that the 34th annual meeting of the Canadian Association of Nurserymen will be held at London, Ont., January 20 to 22, 1957, at the Hotel London. L. C. K.

RICHMOND ELECTION

At the annual meeting of the Richmond Nurserymen's Association held April 19, the following officers were elected: H. M. Van Wormer, Van Wormer Tree Service, president; M. L. Hankins, Town & Country Garden Center, Inc., vice-president, and A. J. Shoosmith, Southside Nurseries, secretary-treasurer. A. J. S.

CLYDE O. DANNER and his wife have opened a retail nursery, carrying a complete line of ornamental trees and shrubs, fertilizers and insecticides, at Central avenue and 11th street, Monte Vista, Calif.

DR. HERBERT A. LUNT, soil scientist, recently retired from the Connecticut agricultural experiment station, Storrs, has established a private soil laboratory and consulting service at Northford, Conn.

C. EDWARD SCOFIELD has been appointed an account executive by Flagler Advertising, Inc., horticultural and agricultural specialists, Buffalo, N. Y. Mr. Scofield has wide experience in horticultural sales promotion and advertising and was formerly horticultural advertising manager of Breck's of Boston.

NICHOLAS KIK, superintendent of parks, Kalamazoo, Mich., and vice-president of the Michigan Park and Forestry Association, recently was the speaker at the third in the series of free public forums being sponsored currently in Grand Rapids, Mich., by the Grand Rapids Nurserymen and Landscapers' Association. He discussed "Flowering Shrubs."

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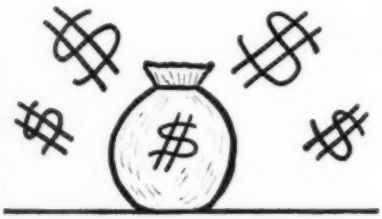
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